

Carl Bennett
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ST. ANDREWS PRESBYTERIAN COLLEGE

pres-by-ter (prĕz'bi-tĕr, prĕs'), *n.* 1. An elder in the early church. 2. A priest. 3. A member of a presbytery.

pres-by-ter-i-al (tĕr'i-āl), *a.* Presbyterian.

pres-by-ter-i-an (-ān), *a.* Of or pertaining to a presbyter or presbytery. *esp.*, [cap.] designating, or pertaining to, a church or churches governed by presbyters. — *n.* [cap.] A supporter of Presbyterianism; a member of the Presbyterian Church.

Pres-by-ter-i-an-ism (-iz'm), *n.* That form of church government which invests presbyters with all spiritual power, and admits no prelates over them; also, the faith and polity of the Presbyterian churches collectively.

pres-by-ter-y (prĕz'bi-tĕr-i prĕs'), *n.*, *pl.* **TER-IES** (-iz). 1. In Presbyterian churches, a territorial constituency of ministers and laymen. 2. The jurisdiction of a presbyter or of a presbytery. 3. Part of a church reserved for officiating priests.

col'lege (kŏl'ĕj), *n.* 1. A body of persons engaged in common pursuits or having common interests, and sometimes, by charter, special rights and privileges. 2. A society of scholars incorporated for study or instruction, as, in the liberal arts, also, a building or buildings used by them.

col'le-g'i-al (kŏl'ĕj-i-āl), *a.* Collegiate.

col'le-g'i-an (-ān), *n.* A member of a college.

col'le-g'i-ate (-āt), *a.* Of or pertaining to a college.

learn (lĕrn), *v.*, *t.*; **LEARNED** (lĕrn'd) or **LEARN'T** (-t); **LEARN'ING**.

1. To gain knowledge of, or skill in, by study or instruction; fix in the mind, as, to learn a lesson, to learn to dance. 2. To ascertain; hear; as, I *learned* this from a friend. — *i. e.* To acquire knowledge or skill; receive instruction or information, as, he *learned* rapidly; to learn of an accident. **learn'er**, *n.* [8]

learn'ed (lĕrn'd), *a.* [4] Of or pertaining to learning, marked by learning, erudite. — *ly*, *adv.* [8]. **learn'ing**. . . Acquisition of knowledge or skill,

knowledge or skill put by instruction or study.

Syn. **LEARNING**, **LOAN**, **ACQUISITION**, **ERUDITION**. Learning is knowledge, esp. as acquired by study. Loan is esp. the body of knowledge (often traditional) on a particular subject. Scholarship implies proficiency in the learning of the schools. Erudition is esp. profound or recondite learning.

text'book ('bŏk), *n.* A manual of instruction.

lib'er-al (lib'er-āl), *a.* [4] 1. Not servile or mean; esp., not narrowly restricted; as, a *liberal* education. 2. Bestowing, or bestowed, in a large and noble way; generous; ample; as, a *liberal* giver or gift. 3. Not strict or rigorous; free, as a translation. 4. Broad minded, not bigoted, independent in opinion; not conservative; as, a *liberal* thinker. *liberal* ideas, the *liberal* party.

art (art), *n.* 1. Skill in performance, knack; as, the *art* of making good bread. 2. Human contrivance or ingenuity, as in adapting natural things to man's use; as, natural beauty may be heightened by *art*. 3. A branch of learning; a science, esp. one, such as grammar or logic, serving chiefly as a discipline or as an instrument of knowledge, specifically *pl.* Those branches of learning taught in the academical course of colleges. 4. The principles or rules of any branch of learning or of any craft, as, the *art* of building, the *art* of war. 5. Systematic application of knowledge or skill in effecting a desired result. Also, an occupation requiring skill, knowledge or skill, a craft; as, the mechanical *arts*. 6. Application of skill and taste to production according to æsthetic principles, such application to the production of beauty by imitation or design, as in painting and sculpture, as, he *prefers art* to music. 7. Skillful plan, device, also, cunning, artifice. — *Syn.* See **SCIENCE**.

sci'ence (si'ēns), *n.* 1. Knowledge, as of principles or facts. 2. Knowledge systematized and formulated, as, *or of cat'or-a* (kăt'ŏr-ē-d). Others of the like kind, and so on, and so forth, — sometimes written as one word. Usually *abbr.*, *etc.* or *&c.*

LAURINBURG, NORTH CAROLINA

CATALOG

1963

1964

Directory of Correspondence

Inquiries for information may be addressed as follows:

General Information	Office of the President
Adult Education	Director of Adult Education
Admission requirements	
Application forms	
Scholarships	Dean of Admissions
Financial or business matters	
Student employment	
Methods of payment	Business Manager
Rooms in Residence Halls	
Student Activities	Dean of Students
Course offerings	
Other scholastic matters	Dean of the College
Transcripts	
Academic Reports	
Records of former students	Registrar
Summer School	Director of Summer School
Employment of Seniors	Director of Placement
Gifts, Bequests,	
Alumni Interests	Development Officer

Visitors to the campus are welcome. Offices of the college are open Monday through Friday from 8:30 to 5:00 and Saturday from 8:30 to 12:00. Appointments for other hours may be arranged.

ST. ANDREWS PRESBYTERIAN COLLEGE BULLETIN

VOL. V

APRIL, 1963

NUMBER 2

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Carl Bennett



S T . A N D R E W S
P R E S B Y T E R I A N
C O L L E G E
C A T A L O G

A P R I L
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L A U R I N B U R G , N . C .

CALENDAR FOR 1963 - 1964

SUMMER SCHOOL 1963

June 10-July 13 First Session
 July 22-August 24 Second Session

FIRST SEMESTER

September 5-6 Thursday-Friday-Faculty Retreat
 September 8 Sunday-Freshmen Arrive
 September 9-10 Monday-Tuesday-Orientation of Freshmen
 September 11 Wednesday-Registration of Freshmen
 September 11 Wednesday-Arrival of Upperclassmen
 September 12 Thursday-Registration of Upperclassmen
 September 13 Friday-Classes Begin-Convocation
 September 16-17 Monday-Faculty Reception-Freshmen
 Tuesday-Faculty Reception-Upperclassmen
 October 10 Thursday-Parents' Day
 October 15-17 Tuesday-Thursday-Services for Christian Growth
 November 4-9 Monday-Saturday-Mid-Semester Testing
 November 12 Tuesday-Mid-Semester Grades Due
 November 27 Wednesday-1:00 p.m.-Thanksgiving Recess Begins
 December 2 Monday-8:00 a.m.-Classes Resume
 December 19 Thursday-1:00 p.m.-Christmas Recess Begins
 January 2 Thursday-8:00 a.m.-Classes Resume
 January 15 Wednesday-Reading Day
 January 16-23 Thursday-Thursday-First Semester Examinations

SECOND SEMESTER

January 27 Monday-Registration for Second Semester
 January 28 Tuesday-Classes Begin
 February 25-27 Tuesday-Thursday-Services for Christian Growth
 March 20-26 Friday-Thursday-Mid-Semester Testing
 March 27 Friday-1:00 p.m.-Spring Recess Begins
 March 28 Saturday-Mid-Semester Grades Due
 April 2 Thursday-8:00 a.m.-Classes Resume
 April 18 Saturday-Alumni Day
 May 2 Saturday-Activities Day
 May 19 Tuesday-Reading Day
 May 20-28 Wednesday-Thursday-Second Semester Examinations
 May 31 Sunday-Baccalaureate Sermon and Graduation Exercises

CALENDAR FOR 1963

JANUARY	FEBRUARY	MARCH	APRIL
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
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13 14 15 16 17 18 19	10 11 12 13 14 15 16	10 11 12 13 14 15 16	14 15 16 17 18 19 20
20 21 22 23 24 25 26	17 18 19 20 21 22 23	17 18 19 20 21 22 23	21 22 23 24 25 26 27
27 28 29 30 31	24 25 26 27 28	24 25 26 27 28 29 30	28 29 30
		31	
MAY	JUNE	JULY	AUGUST
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19 20 21 22 23 24 25	16 17 18 19 20 21 22	21 22 23 24 25 26 27	18 19 20 21 22 23 24
26 27 28 29 30 31	23 24 25 26 27 28 29	28 29 30 31	25 26 27 28 29 30 31
	30		
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
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22 23 24 25 26 27 28	20 21 22 23 24 25 26	17 18 19 20 21 22 23	22 23 24 25 26 27 28
29 30	27 28 29 30 31	24 25 26 27 28 29 30	29 30 31

CALENDAR FOR 1964

JANUARY	FEBRUARY	MARCH	APRIL
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12 13 14 15 16 17 18	9 10 11 12 13 14 15	15 16 17 18 19 20 21	12 13 14 15 16 17 18
19 20 21 22 23 24 25	16 17 18 19 20 21 22	22 23 24 25 26 27 28	19 20 21 22 23 24 25
26 27 28 29 30 31	23 24 25 26 27 28 29	29 30 31	26 27 28 29 30
MAY	JUNE	JULY	AUGUST
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10 11 12 13 14 15 16	14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15
17 18 19 20 21 22 23	21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22
24 25 26 27 28 29 30	28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29
31			30 31
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2 3	1 2 3 4 5 6 7	1 2 3 4 5
8 7 8 9 10 11 12	4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12
13 14 15 16 17 18 19	11 12 13 14 15 16 17	15 16 17 18 19 20 21	13 14 15 16 17 18 19
20 21 22 23 24 25 26	18 19 20 21 22 23 24	22 23 24 25 26 27 28	20 21 22 23 24 25 26
27 28 29 30	25 26 27 28 29 30 31	29 30	27 28 29 30 31

TABLE OF CONTENTS

Directory of Correspondence	Inside Front Cover
Calendar of Events	2
Aim	5
General Information	6
Admission	13
Student Life	17
Fees and Financial Aid	25
Academic Program	31
Courses of Instruction	36
Programs of Study	75
College Personnel	91
Index	101



AIM

St. Andrews Presbyterian College represents a new venture in Christian higher education. To justify the faith of its founders, St. Andrews must challenge complacency and mediocrity in all of life. It seeks to combine without apology the love of God and the love of learning, the spiritual and the intellectual, and is committed to the pursuit of excellence in its academic, its social and its religious program.

More specifically the objectives of the educational experience provided at St. Andrews are the following:

(1) A disciplined, informed and inquiring mind, marked by the ability to think clearly and to express ideas effectively.

(2) A breadth of intellectual sympathy that includes awareness of the major cultural achievements of Western civilization and of the emerging non-Western countries.

(3) A growing and informed Christian faith that finds expression in genuine commitment to the Church, and in the work to which its graduates are called.

(4) An intelligent concern for Christian and democratic values in personal relations, and in national and international affairs.

(5) A desire for continued intellectual, moral and spiritual growth.

(6) Physical fitness and vitality.

GENERAL INFORMATION

St. Andrews Presbyterian College is a four-year liberal arts college for men and women, owned by the Synod of North Carolina, Presbyterian Church in the United States. It represents a merger, on a new campus in Laurinburg, North Carolina, of three existing Synod colleges: Flora Macdonald, a four-year college for women in Red Springs; Presbyterian Junior College for Men in Maxton; and Peace, a junior college for women in Raleigh. The contemporary physical plant of the college was designed by the architect to be functional and yet retain beauty and comfort. The faculty is of high caliber, and the new academic curriculum has focused national attention on St. Andrews.

Location

St. Andrews lies on the south side of Laurinburg, county seat of Scotland County, at the edge of the famous Sandhills country. The golf resorts of Southern Pines and Pinchurst are nearby. It is at the junction of U. S. routes 401, 15, 501 and 74. These highway arteries, plus bus service and proximity to air service, make Laurinburg accessible from all parts of the country. The college is served by the Seaboard railroad via Hamlet and Atlantic Coastline via Fayetteville. In addition, a private airport with 6,500-foot concrete landing strips is available.



Accreditation

The college is accredited by the Southern Association of Colleges and Secondary Schools. It is an institutional member of the National Association of Schools of Music and holds membership in the North Carolina College Conference, the American Association of Colleges, the North Carolina Foundation of Church-Related Colleges, and the Presbyterian Education Association of the South.

Campus

St. Andrews' fortunate location gives its students a pleasant setting for study and recreation. Laurinburg's climate is similar to that of the nearby winter resorts of Pinehurst and Southern Pines. The area is noted for the beauty of its azaleas, camellias, dogwood, and longleaf pine.

The college is equally fortunate in having all permanent buildings, except the gymnasium, centrally air conditioned. One of the chief attractions of the college is its new, contemporary-style campus. The beauty of the campus is not marred by unsightly poles, since power and telephone lines are underground. The instructional units and dormitories are built with ramps to accommodate physically handicapped students.



The college owns 838 acres of rolling farm land, most of which lies in the city limits. The campus is located on the northern and southern banks of a 70-acre lake. The college architect won a first-place citation in national competition for the campus design. Expert landscape and educational consultants were employed to translate Christian educational philosophy into modern construction.

THE LIBERAL ARTS AND SCIENCE BUILDING, the largest building on campus, has an area of 64,000 square feet. One-story on the south side, the building slopes to two-story height on the lake front, and has two enclosed, landscaped courtyards. It contains 17 lecture-classrooms, 7 science laboratories, 2 seminar rooms, 3 business education rooms, home economics equipment, arts and crafts studio, language laboratory with the latest in modern equipment, 250-seat liberal studies auditorium equipped with visual aids, faculty lounge, 32 faculty offices, and an exhibition lobby area. All laboratories have the most modern equipment. Provision has been made for closed circuit television and audio-visual teaching.





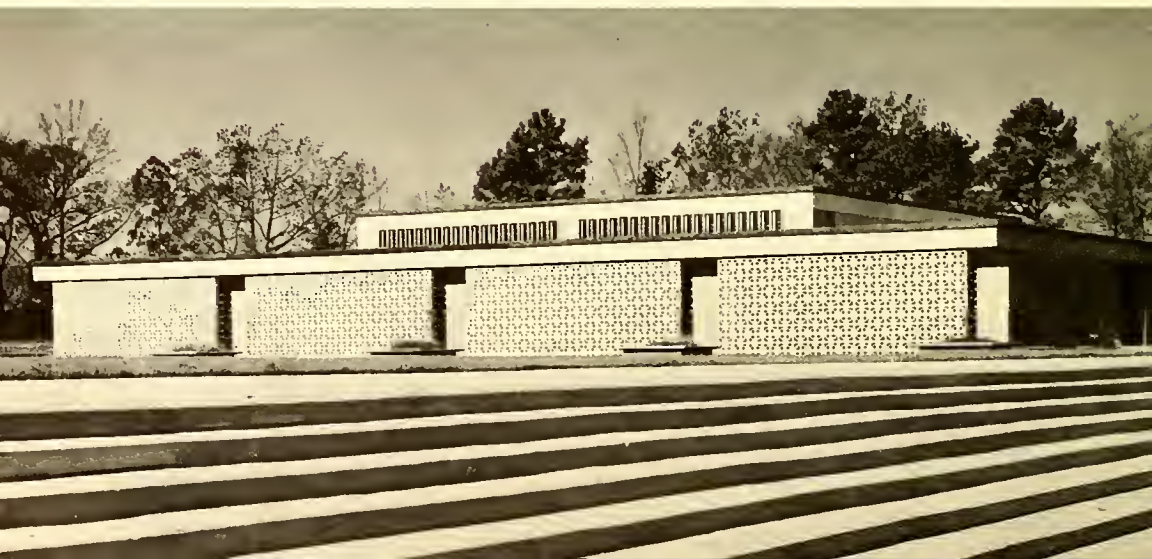
THE DORMITORIES are single and multiple-story to accommodate 96 and 114 students to a building. The single-story buildings are constructed around courtyards. One outstanding feature of all dormitories, especially conducive to developing a spirit of student family living, is the small group unit to accommodate 12 or 16 students. These units include bedrooms, bath, and a lounge. Laundry facilities are conveniently located in each dormitory. In addition, each dormitory has a reception area, residence hall director's apartment, and all required auxiliary facilities.

Near the men's dormitories are these physical education facilities: all-weather track, baseball field, lighted all-weather tennis courts, soccer and hockey fields, and a golf practice area.



THE STUDENT CENTER, a two-story glass building with balconies, overlooks the lake on the residential side of the campus. This building, which is the center of the social life of the campus, houses the student lounges, television room, music-listening room, recreational facilities, snack bar, post office, student book store, student activity offices, and cafeteria.

THE MUSIC BUILDING overlooks the lake on the south side of the campus. It contains instrument storage room, choral-recital hall and robe storage, 2 music theory classrooms, a music education classroom, 8 studios for organ and piano, 18 practice rooms, music listening room, library, and faculty offices. The building is soundproof throughout.



THE POWER PLANT, an attractive, modern building on the northern edge of the campus, houses the latest equipment for heating and airconditioning the entire campus. It is also the center for the electrical distribution system.

THE LIBRARY, a two-story building with a mezzanine, will have a seating capacity of 300. It will contain reference, research, and periodical areas; study carrels; seminar and conference rooms; microfilm and listening rooms; offices and work room. Library capacity will be 65,000 volumes.*

THE AUDITORIUM, located adjacent to the Music Building, will be connected by a covered walkway. It will have a seating capacity of 1,200 with stage, concert organ, exhibit area, and lounges.*

THE GYMNASIUM is to be conveniently located between the residences and will provide excellent facilities for both men and women, including a regulation basketball court, classrooms, dressing rooms, and offices. This is the only building not air-conditioned.*

THE ADMINISTRATION BUILDING will house the offices of the administrative officers and the Guidance Center.*

THE CHAPEL will be located on a peninsula built in the lake. The focal point of the campus, this architectural gem will seat 260 and will be equipped with organ, offices for the Dean of the Chapel and secretary, robing room, small conference room, and storage spaces.*

THE INFIRMARY will have 8 two-bed wards, 2 private rooms, waiting room, pharmacy, records storage, examination rooms, nurse's office, utility room, kitchen, and nurse's apartment.*

HISTORY

In the early 1950's the Presbyterians of North Carolina were facing the problem of too many colleges for their financial resources and obtained a grant from the Ford Foundation with which to conduct an overall study of the program of Christian higher education in the Synod of North Carolina. One of the results of the study was a decision by the Synod, in 1955, to merge three of its colleges into one at a new site.

*These buildings are not ready but should be under construction in the near future, probably in the order listed.

A Board of Trustees was elected with representation from the Boards of Trustees of the three merging schools after these boards had signed the agreement of consolidation. The official agreement of consolidation was filed with the Secretary of State in Raleigh on May 28, 1958, and was called the Charter of the Consolidated Presbyterian College.

Subsequently, another foundation grant enabled the Synod to conduct a study leading to the new and unusual features of the St. Andrews curriculum and student life. Long periods of planning by the Board went into the campus design, the curriculum and administrative organization of the new college.

St. Andrews was named in late 1960 after a careful study by a sub-committee of the Board of Trustees. The name has great historical and traditional significance in the Protestant heritage. Not only was Andrew one of Christ's disciples, but he also became a symbol of Christian evangelism in the history of the church. St. Andrews University in Scotland was a key point in the development of the Protestant Church in Scotland. The name "Andrew" is Greek and means "manhood" or "valor."

The merging institutions contributed years of experience and time-honored traditions to the new college. Peace College was founded in 1857 and issued its charter in 1858. After the consolidation, the First Presbyterian Church of Raleigh brought suit to continue Peace College. The court upheld the validity of the merger and ownership of the Peace assets by Synod, but allowed the church in Raleigh to operate Peace separately, under specified restrictions and a balanced operating budget.

Flora Macdonald College, named for the colorful Scottish heroine, was founded in Red Springs by Fayetteville Presbytery in 1896. First called Red Springs Seminary, the name was changed in 1903 to Southern Presbyterian College and Conservatory of Music in recognition of its outstanding academic program in music. In 1914 Dr. James A. Macdonald of Toronto suggested that the name be changed to Flora Macdonald.

In 1928 the Synod of North Carolina authorized the establishment of the Presbyterian Junior College for Men in Maxton, and the institution rendered valuable service to North Carolina youth until it became a part of St. Andrews.



ADMISSION

An education at St. Andrews is an adventure—exciting and rewarding. In order to take the greatest advantage possible of the opportunities here, the student must prepare himself, or be prepared, adequately.

In its admissions policy, St. Andrews adheres to sound educational practice. The prime factor in considering each prospective student is his potential ability to achieve a rewarding and exciting college career.

St. Andrews feels that, once he or she is found to be academically qualified, no student should be denied entrance because of financial need. Naturally, the college expects its students to pay as much of their costs as possible. However, within the limits of its resources, St. Andrews will supplement individual students' funds with scholarships, grants-in-aid and loans.

St. Andrews is committed to the education of those persons who are seeking a college with excellent standards of scholarship in a Christian atmosphere. The application of every such person desiring this type of educational experience will be welcomed and carefully examined.

Types of Admission

For admission as a freshman, the requirements will normally include graduation from a high school accredited by the State Department of Public Instruction. Preparatory training should emphasize the traditional academic subjects. The recommended high school credits include

English	4 units
Foreign Language	2 units
Mathematics (Algebra 2, Plane Geometry 1)	3 units
Social Sciences	2 units
Natural Sciences	2 units
Electives	3 or more units

If the applicant has not taken all the recommended subjects, the application will not be denied for this reason alone, provided course credits are reasonably similar. However, if the applicant has a year or more of high school remaining, he should make every effort to take the rest of his study in the recommended fields. Removal of deficiencies before registration for the first semester is desirable; all deficiencies must be removed before registration for the third semester.

Students wishing to transfer to St. Andrews from other colleges will be admitted to advanced standing, provided they meet the academic standards of St. Andrews and submit the admissions credentials indicated below. Only grades of "C" or higher are accepted for transfer credit. A maximum of 64 semester hours will be accepted from a junior college.

The college admits a limited number of special students who have been graduated from secondary schools but who are not candidates for a degree. These students are classified as Special Students and do not have class standing. Students carrying fewer than 12 hours of credit study because of reasons of health or other special considerations will pay according to the rates for Special Students. Also, those persons enrolled for studio courses only in the Conservatory of Music are classified as Special Students.

St. Andrews recognizes its responsibility to those student applicants who, because of ability and achievement, have proved to be superior in their pre-college preparatory study. Such persons will be considered for admission before completion of their high school program. In addition,



students who have successfully completed advanced placement courses in high school and satisfied the standards set by the Educational Testing Service, Princeton, New Jersey, may be permitted to matriculate with college credit for such achievement. Applicants who anticipate advanced placement on this basis should write to the Dean of the College for details.

Admissions Procedure

The Admissions Committee will decide upon each application on its own merits, and every applicant will receive individual attention. For admission to St. Andrews, all applicants must follow the procedure as outlined below:

1. For those high school students who are not seniors, a preliminary application may be requested. When this is returned to the Admissions Office it will be kept on file and from time to time other information about the college will be sent to the applicant. A regular application, as noted in No. 2 below, will be sent at the start of the senior year.

2. For high school seniors and other applicants, a request for an Application for Admission form should be made. A fee of \$10.00 should accompany this completed application when it is returned. This fee covers cost of processing and cannot be refunded or applied to other fees of the college.
3. Arrangements should be made to take the Scholastic Aptitude Test of the College Entrance Examination Board. This test requires no special preparation or study. The test is given several times a year at a number of centers throughout the United States. Information about this test and dates of its administration may be obtained from the high school principal or from

College Entrance Examination Board
Box 592
Princeton, New Jersey
4. A personal data form (including a health record) will be furnished for completion and return.
5. A transcript of high school credits (and all college credits in the case of transfer students) should be sent directly to the St. Andrews Admissions Office from the high school or college(s) the applicant has attended.
6. Evidence of honorable dismissal from the former school or last college attended and of ability to do satisfactory academic work is expected of transfer students.
7. Character recommendations by school authorities, the applicant's pastor, and others will be requested.

Acceptance by St. Andrews

The application will be reviewed as soon as all the required material is on hand. If the applicant is accepted for admission, he will be required to make a deposit of \$25.00 in order to hold a place in the next entering class. This deposit will be credited on the semester account. An additional deposit of \$50.00 is required when he reserves a room in the dormitory. This deposit will be credited to the semester account. These deposits are not refundable unless the student is later denied admission by the college.

STUDENT LIFE

The life of St. Andrews students is directed toward the goal of fullness in living and learning together. The academic program, social activities, citizenship, religion and recreation all make a contribution. The academic program is designed to bring about intellectual competence, familiarity with the learning process, skill and knowledge in special fields, and climaxes with the awarding of a baccalaureate degree.

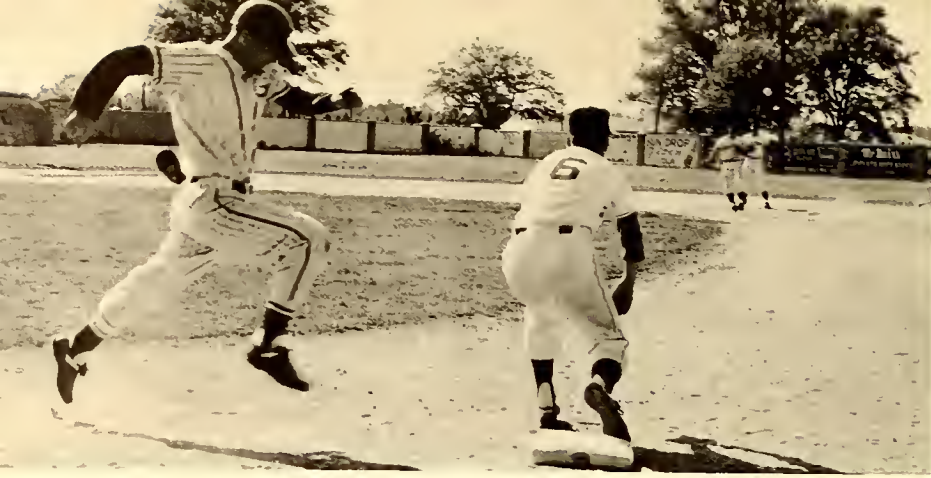
In the social life of the campus, the emphasis is on group living and the student has many opportunities to develop confidence and poise in social activities. Individual responsibility is the keynote of student citizenship. Student government helps plan and regulate the campus life through the Senate, the Student Council and the Honor Council. The religious life on the campus is centered in chapel programs and other activities which provide experiences in worship and spiritual growth. Recreation at St. Andrews includes games and sports, dances, informal and formal musical groups, and many opportunities for filling leisure time.

Students are expected to lead a balanced campus life and participate fully in all of its phases. The philosophy of the college is that neither academic nor social life can function in a vacuum, apart from each other.

The cornerstone of the life of students at St. Andrews is the Honor Code. It challenges the student, as an individual, to make his best contribution in academic excellence and Christian citizenship for the welfare of the total college community.

Each student automatically becomes a member of the St. Andrews Student Association upon enrollment at the college and with that act assumes the privilege and the responsibility of maturing self-direction





and self-discipline. It is expected that the student will exercise responsible initiative in his own growth and development within the framework of the policies and procedures outlined by the Board of Trustees and authorized through and by the President of St. Andrews.

Faculty and administrative supervision of student-centered activities is provided through (a) the joint student-faculty Student Life Committee which works with the office of the Dean of Students in overall coordination of matters relating to non-academic affairs; through (b) the Faculty Executive Committee which works with the Dean of the College in review of matters relating to the academic affairs of students; and, through (c) the Student-Faculty Judiciary Committee which serves as the major court in handling misconduct among students. The President of St. Andrews is the source of final authority and appeal in all actions of these groups.

The St. Andrews Student Association is given a large amount of autonomy in those areas where student initiative will help develop maturity and greater insight. The leadership opportunities extended students may be increased or decreased as the students responsibly accept both the privileges and obligations involved. The Student Association functions through three primary divisions. The Student Cabinet, as the executive body, is composed of leaders of all major divisions and departments of the Association together with the chief elected officers of the student body. The Honor Council is the chief judicial agency of the Association and is composed of elected representatives from the upper three academic classes. The Student Senate, with representatives from each class and residence group, serves as the chief legislative body of the Association. The major divisions and the various departments of the student body have Faculty and Staff Advisors to assist with programs of the student groups.



It is essential, of course, that students at St. Andrews behave responsibly and that any who are unwilling to follow the policies and procedure of the institution may expect disciplinary action. Such action by the college, or its officials, while directed toward the welfare of all students, must be firm when the student involved does not show convincing evidence of being in sympathy with the purposes, policies, and procedures of the institution.

The college will provide reports of academic progress to both students and parents after each grade period. Parents will also be informed at once should a son or daughter face discipline of any kind (i.e., Academic Warning, Academic Probation, extended "Campus or House Arrest" or more serious disciplinary actions). If such problems do arise, however, it is hoped that students will communicate with their parents immediately and not await notice from college officials for full consideration of their difficulties. The college, of course, must reserve the right to ask any student to withdraw when it becomes clear that this is necessary for the welfare of the institution.

The student life programs are more fully explained in the **HANDBOOK FOR STUDENTS**, which is given to each new student when he registers.



RELIGIOUS LIFE

Every effort is made at St. Andrews by the administration and the Student Christian Association to make clear to students the claims of Jesus Christ upon their lives.

St. Andrews is a four-year, fully accredited liberal arts college, under church control, but not sectarian in its outlook. Nearly one-third of the total credit hours required for graduation is devoted to the program of Christianity and Culture. This is a four-year course designed to provide for every student, who is at all receptive, a sound Christian philosophy of life. The whole curriculum is taught in an academic community which respects the truth of religion and by professors who are not ashamed of the Christian faith. Students have available counselors who are equipped to help them find the will of God for their lives. The Guidance Center stands ready to explain the meaning of Christian vocation. The atmosphere on the campus is one of spiritual sincerity, because both teachers and students are searching for the truth. In whatever discipline or subject they find it, they acknowledge it to be God's truth.

This college is owned and operated by the Presbyterians of the Synod of North Carolina. It is unreservedly committed not only to teach the

Christian faith but to live it. All students attend chapel services by classes once a week. Ministers and religious leaders of the state and nation are brought to the campus for these services. Twice a year special Services for Spiritual Growth are held and these are conducted by competent leaders in the churches. The students themselves conduct vespers twice a month. There are discussion and prayer groups in the dormitories.

Through the Honor System the students themselves seek to put into practice Christian standards of conduct. Serious violations of this standard are referred to the student councils or to the Executive Committee of the Faculty, and appropriate action is taken.

At St. Andrews faculty are selected with two things in mind: Intellectual and academic competence, and genuine commitment to Christian ideals and values. Christianity is not treated as just another religion to be studied, but as the way of life that alone brings enduring happiness. In Jesus Christ, the divine Son of God, the perfect revelation of the Father, is found "the way, the truth, and the life."

RESIDENCE HALL LIFE

Campus housing is provided all students not living with their parents, guardians, or husbands or wives, when available space permits. Single undergraduate men and women fully admitted, but for whom no space on campus can be assured, may be permitted to reside off-campus when approved by application to the office of the Dean of Students.

Residence hall life is designed to equip the student for responsible group living and self-discipline. Students live in small units of twelve to fourteen in suites grouped around a common living room. In this atmosphere they must learn to live harmoniously and creatively. Through the House Council and Residence Director, resident students are able to participate in the planning and operation of the residence halls, as well as the larger campus community program of activities. Staff members of the Office of Student Affairs serve in overall coordination of residence halls and resident student life.

Residents are provided meal service in the Student Center Dining Hall each day throughout the regular college year. Both the residence halls and the dining hall are closed during stated vacation and holiday periods. Off-campus students may secure permission from the Business Manager to have one or more meals on a regular basis.



HEALTH AND MEDICAL CARE

A College Health Center with a full-time Resident Nurse and a College Physician available for daily consultation is maintained for routine medical and first aid services to the students at no extra charge. For those who have paid the general fee and room and board, overnight care in the Health Center is provided; however, cases needing special or more than casual bedside attention will be referred to a local hospital. Such special care, special medications, and the services of medical doctors off-campus are financial responsibilities of the students and their parents. The College Physician, as well as other medical doctors, may be seen for private consultation off-campus, or at the specific request of a student or parent. Such services are not provided as a part of the College Health Center program.

Through the cooperation of a commercial insurance company, a low-premium accident and sickness insurance plan is available to full-time students. The college recommends strongly that parents secure such insurance protection for their sons and daughters if adequate coverage is not provided through family or individual programs. More information regarding this college-approved and company-administered plan is available in the College Health Center or the Business Office.

MOTOR VEHICLE USE PERMITS

St. Andrews officials recognize that motor vehicle operation hazards exist far beyond the bounds or control of the college and do not encourage students to bring vehicles to the campus. It is believed, however, that some students may have just cause for possession of motor vehicles while enrolled as residents or non-residents.

Students who believe possession of an automobile or operation of a motor vehicle is necessary, may make an application for a permit through the Office of the Dean of Students. Application forms are provided by this office and permission, if granted, requires that the applicant have approval of his or her parents, guardian, or spouse if married, present evidence of personal and property liability protection, and such other data as may be requested for supporting the application. For applicants who are 21 years of age or over and self-supporting, applications must also bear the name of one of the above persons or the next of kin to whom reference may be made in emergencies.

Applications must be approved and in the possession of the applicant prior to bringing a motor vehicle on the campus or he will be subject to appropriate disciplinary action. Students on probation, or with probationary status pending, whether academic or disciplinary, may expect their permissions to operate motor vehicles to be suspended.

Supervision of the motor vehicle use program is coordinated by the Student Traffic Commission and the Office of the Dean of Students.



GUIDANCE AND COUNSELING

The aim of the Guidance and Counseling Program is to provide counseling which will help each student with personal, academic, and vocational problems from the time he first enters the college for admission until after graduation. Pre-college counseling is under the direction of the Director of the Guidance Center.

St. Andrews cooperates with the General Assembly of the Presbyterian Church, U. S., and the Synod of North Carolina in maintaining a Presbyterian Guidance Center. This department works closely with the Department of Christian Vocation of the Board of Christian Education in offering the advantages of a modern Christian guidance center to persons outside of the college community.

Prospective students are urged to make use of this center during their junior year of high school. Appointments may be made through any Presbyterian minister or by writing to the Director of the Center.

Upon being admitted to the college, each student is assigned an adviser who assists him in becoming oriented to campus life and in planning his academic program. The student maintains the relationship with his adviser for a two-year period. Then, at the end of the sophomore year, he seeks admission to a department of the college as a major and receives a new adviser assigned to him by that department.

General vocational guidance is under the supervision of the Director of Guidance. Freshmen are given a battery of general aptitude and achievement tests which serve as a basis for later counseling.

Paralleling this general program is a specialized program which offers occupational guidance to each student. This program assists the student to

- (1) Discover his or her own special interests, aptitudes, talents, and powers.
- (2) Discover the most promising outlets for these special and individual powers.
- (3) Become familiar with the best techniques in obtaining a job.
- (4) Recognize the principal adjustments needed in changing from life on the campus to one in the business world.
- (5) Arrange for interviews with government agencies, business concerns and other groups interested in employing St. Andrews Presbyterian College graduates; and
- (6) Seek God's will in his life as he serves God through his daily vocation.

In order to aid students who are having special difficulties in getting the meaning from the printed page, a reading service has been established under the supervision of the Director of Guidance. Any student desiring help in diagnosing his reading problems and in undertaking remedial measures may use this service. Counselors and instructors refer students to the Center for help.

PLACEMENT SERVICE

St. Andrews Presbyterian College offers vocational placement service to senior students and in a limited degree to alumni.

The Bureau of Teacher Placement is directed by the Chairman of the Education Department. This Bureau collects the information and credentials of those desiring the service and makes them available to interested school administrators. Where possible, administrators are invited to the college campus for interviews with the teaching candidates.

The Bureau of Vocational Placement, other than teacher placement, is under the supervision of the Dean of Students. This Bureau serves as a clearing house for information on openings in business, industry, government service, and graduate study. It arranges interviews between interested seniors and representatives from these fields. It also makes known to students summer employment opportunities when such information is available.

FEES AND FINANCIAL AID

St. Andrews seeks to provide an educational opportunity at the lowest possible cost which will afford high quality instruction and comfortable student facilities. Tuition and fees cover only a part of the instructional and operating cost of the college. The difference between such costs and the amount paid by the students must be met by income from endowment, contributions of Presbyterian churches, and gifts of friends who recognize the value of the opportunities offered by St. Andrews.

Expenses

	Day Student Per Year	Per Semester	Resident Student Per Year	Per Semester
Tuition	\$725.00	\$362.50	\$725.00	\$362.50
General Service Fee*	85.00	42.50	85.00	42.50
Room Rent and Service	—	—	225.00	112.50
Board	—	—	400.00	200.00

Applied Music and Practical Fees

One hour lesson per week of applied music throughout the year (voice, piano, violin, flute, viola, woodwind and brass instruments)	\$100.00
One-half hour lesson per week throughout the year	60.00
Use of piano (one hour per day)	10.00
Use of organ (one hour per day)	20.00
Use of instruments in instrumentation course	10.00

Charges are the same for music majors and non-music majors.

A limited number of non-college studio students from surrounding communities can be accepted. The rate for instruction will be \$180.00 per year. This covers one hour per week of private instruction.

*The General Student Service Fee of \$85.00 covers such items as college infirmary services, laboratory fees, lecture and concert series, musical programs, physical education fees, library services, subscription to the college newspaper, yearbook, and membership in Student Christian and Student Government Associations.

General and Miscellaneous Fees

Cost of books and supplies will vary somewhat according to the course of study.

In addition to these costs, a reasonable allowance should be made for incidental expenditures which include personal necessities, laundry, clothes and miscellaneous items. It should be understood that this total will vary according to individual tastes, requirements, and choice. The college provides many social, recreational, and cultural opportunities which may be enjoyed for little or no extra cost.

Application Fee	\$10.00
Room Reservation Deposit	50.00
Pre-Registration Deposit	25.00
Deferred Payment Fee	10.00
Late Registration Fee	5.00
Paid only if the student registers after the announced registration period.	
Change of Schedule Fee	1.00
This applies to change in program made after the second week of classes in any semester.	
Graduation Fee	15.00
Includes the cost of diploma and rental of cap and gown.	
Transcript Fee	1.00
First transcript is without charge. For each one after that there is a fee of \$1.00.	
Extra Hours (per semester hour)	17.50
In excess of seventeen regular academic credit hours per semester.	
Reduced Hours (per semester hour)	17.50
Less than twelve academic hours per semester.	
Practice Teaching (3 hours credit)	35.00
Each additional hour of credit	5.00
If the student wishes the college to furnish transportation, an additional fee is charged	
Home Management House Residence Fee	25.00
Resident Students	25.00
Non-Resident Students	75.00

Application and Pre-Registration Deposits

An application fee of \$10.00 is required of each new student. A pre-registration deposit of \$25.00 is required in order to hold the student's place in the next entering class. Applicants for dormitory reservations who file before May 1 must also make a room reservation deposit of \$50.00, while applicants for dormitory space who file after May 1 must make an advance payment of \$75.00, in addition to the pre-registration deposit of \$25.00 and the \$10.00 application fee. All fees except the application fee will be credited to the student's account. Advance payments are not refundable or transferable unless the applicant is refused admission by the college.

Student Accident and Sickness Insurance

St. Andrews Presebyterian College makes available each year a student insurance program at a minimum cost for a twelve months period. A letter and a brochure will be mailed to every student following his acceptance explaining this program in greater detail. The college is vitally concerned with the promotion of good health for its students. Therefore, as a supplement to our existing health facilities, we recommend participation in this program. The plan will cover serious illness and injury requiring hospitalization and surgery.

Laundry Rental Service

A laundry rental service is available and information will be sent to students after their acceptance describing the service. Generally, two sheets, two bath towels, two face towels, and one pillow case are furnished for each student each week.

Payment of Accounts

All accounts are due and payable on or before the day of registration for each semester. Registration is not complete until all bills are settled. Parents are expected to furnish students with signed check when they register, give them permission ahead of time to write checks, or to have made arrangements with a tuition payment plan or bank to send in the semester's payment. No bills will be mailed home.

Any exception made to the above stated policy must be cleared prior to registration with either the President or Business Manager.

In order to meet changing economic conditions, the Board of Trustees reserves the right to revise charges upward or downward as conditions may warrant.

Refunds

If a student withdraws for any reason within the first three weeks of a semester, one-half of the tuition and fees will be refunded. A charge will be made for a proportionate share of the board, but a full charge will be made for room rent. After the third week, no refunds are allowed except for sickness or a call into the armed services. In case of sickness we must have a written statement of the case from a medical doctor. No refunds will be made without an honorable dismissal from the Dean. Application for refund must be made at the time of withdrawal.

FINANCIAL AID

It is the firm belief of St. Andrews Presbyterian College that our first responsibility lies in serving young people who earnestly desire a college education. While the primary responsibility for providing this education lies with the student and his family, St. Andrews Presbyterian College realizes that financial aid is quite often imperative if a student is to obtain an education in a church-owned institution. With this in mind it is our policy that no qualified student shall be denied an education because of financial need, provided the need is real and the student is willing to cooperate with college officials in working out an aid program.

What is Available

There are many sources upon which a student may draw for financial aid which are not controlled by our own scholarship committee, but which may be used at St. Andrews. Among these are

Presbyterian Scholarship Competition, Board of Christian Education, Box 1176, Richmond, Virginia.

National Merit Scholarship, 1580 Sherman Avenue, Evanston, Illinois (information available at local high schools).

Prospective Teacher Loan Program, Department of Public Instruction, Raleigh, North Carolina (for North Carolina residents who plan to teach in the public schools in the State).

North Carolina Bankers' Student Loan Plan (check with your local bank).

Local churches and Presbyterian organizations often have funds available for Presbyterian students and the local pastor should be consulted. Other church denominations offer similar aid. In addition many fraternal and civic groups sponsor financial aid programs. There are also available various programs for the children of deceased or disabled veterans of World War I, World War II, and the Korean conflict. This information is available from local Veterans Administration offices.

Under the control of our own scholarship committee we have a program which falls into two general categories: Honor Scholarships, and Grants-in-Aid. The college also participates in the National Defense Student Loan Program, Pickett & Hatcher Educational Fund loans, the Tuition Plan, and other private loan programs.

Applying for Financial Aid

A student who desires financial aid other than honor scholarships from St. Andrews may obtain a College Scholarship Service application form from his local high school. He may also request such a form from the college. This application is not returned to the college, but is sent to College Scholarship Service, Box 176, Princeton, New Jersey,

NO LATER THAN MAY 1. This independent evaluating agency (C.S.S.) will report to the college the amount of support the family and student should ordinarily be able to provide. All Grants-in-Aid will be assigned on the basis of these reports.

Honor Scholarships

Many honor scholarships are available, administered at a local or national level, for which high-caliber students are urged to apply, and which may be used at St. Andrews Presbyterian College. Each student should investigate these personally since they often differ with localities.

Our college sponsors its own honor program, the Vardell Scholarships, with a top award of \$2,400. These scholarships are for a four-year period, and are given on a basis of personal interview, four-year high school record, CEEB scores and Christian character.

ALL APPLICATIONS MUST BE IN BY MARCH 1. For further information write:

Financial Aid Officer
St. Andrews Presbyterian College
Laurinburg, North Carolina

In addition to the competitive scholarships, any high school valedictorian is eligible for a \$1,000 scholarship, and any high school salutatorian may receive \$800 if approved by the St. Andrews' Scholarship Committee. These grants are also divided over a four-year period.

Grants-in-Aid

A Grant-in-Aid is an amount awarded to a student who has demonstrated a definite need, and who will be prevented from attending college unless the sum is received. The value of these grants varies according to the need of the student. The funds are made available through the income received from the endowed scholarship funds as listed in the catalog and through gifts received for the current scholarship fund.

Some Grants-in-Aid require the student to perform work for the college. Such positions as receptionist or library assistants fall in this category.

A family with more than one son or daughter currently enrolled may receive a grant of up to \$500 per year, if need is demonstrated.

Loans

For those students whose needs exceed the amount the school scholarship program provides, or for those who may be requested to share the load of their financial aid, there are many good loan funds available. Among these are the National Defense Student Loan Program, the Pickett & Hatcher Educational Fund, and the St. Andrews College Loan Fund.

The National Defense Student Loan Fund is a part of the National Defense Education Act which was passed by the Congress in August of 1958, and signed into law by President Eisenhower on September 2 of the same year. Title II of this act provides loans to worthy and needy students in institutions of higher learning. Assistance is in the form of loans that bear no interest until repayment begins, and the borrower is not required to begin repayment until he is out of school one year. While the act provides that a student may borrow up to \$1,000 per year for five years, the school may place any limit it wishes upon the available funds in order to serve the greatest number of applicants.

Special consideration is given to students with superior academic background who plan to become secondary or elementary school teachers, or to students whose academic background indicates a superior capacity for, or preparation in, science, mathematics, engineering, or a modern foreign language. The loan fund is also "reasonably available" to all students who meet the eligibility requirements.

The Pickett & Hatcher Educational Fund grants loans to students who are accepted by the board of trustees of the Fund. Loans bear interest at the rate of 2% per annum during the time the student remains in college. Four months after leaving college, the rate changes to 4% per annum.

For further information concerning these or other loan funds, contact the Financial Aid Officer of St. Andrews Presbyterian College.

Other Financial Plans

For those who do not wish, or are not eligible to participate in the regular scholarship program, but have a desire to spread out the payment of fees over a longer period of time, there are several plans available. Some of these are

The Tuition Plan, One Park Avenue, New York 16, N. Y.

College Assured Plan, Wachovia Bank & Trust Co., Winston-Salem, N. C.

Educational Funds, Inc., 10 Dorrance Street, Providence, Rhode Island

All of these plans provide for regular monthly payments spread out over a designated period of time. For further information write to the desired firm directly.

To Renew Financial Aid

All financial aid, with the exception of the honor scholarship program, must be renewed annually. All applications to renew the financial-aid program which is in effect must be made with the Financial Aid Officer at the time a student re-registers for the coming school year. Any application filed after this date will be treated as a new application and will lose any priority which might be gained as a renewal. In order to renew any financial aid including loans, or to be granted any aid for

the Sophomore, Junior or Senior years a student must have maintained a "C" average in all of his academic work during the past school year. No student who is deficient in hours or quality points will be eligible for aid. No student who maintains an automobile on campus will be eligible for aid, without the express permission of the Financial Aid Officer or the Committee on Financial Aid.

ACADEMIC PROGRAM

Registration

Toward the close of the semester, each student plans his course program for the succeeding semester in conference with his adviser. New students confer with their advisers during the orientation period. Final registration is completed on a designated registration day at the beginning of each semester.

Necessary changes in registration may be made by the use of forms obtained in the office of the Registrar. The original must be signed by the student's adviser and the professors concerned. The change is not official until the form is returned to the Registrar. Withdrawal from a course is regarded as a change in registration and is cared for in the manner described. Failure in the course will be recorded for those who do not comply with this request. A student may not register in a course for full credit after the second week of the semester.

Student Program

The normal student load is fifteen or sixteen credit hours per semester. Permission to take more than a normal load is based upon the student's previous academic record. Seventeen hours may be granted by the adviser. Application for more than seventeen hours must be made to the Dean of the College. Under no circumstances will a student be permitted to take more than nineteen semester hours. Physical education and choir are in addition to the normal load permitted. Regularly enrolled students must carry a minimum of twelve semester hours, not including physical education or choir. If a student's course enrollment falls below this minimum, he may be asked to withdraw from college.

Residence

No degree will be conferred upon anyone who has not spent his senior year at St. Andrews Presbyterian College.

System of Grading

Each student receives a grade in his courses at the middle of the semester and at the close of the semester. The mid-semester grades

do not appear on a student's transcript; they are designed to give the student an indication of his progress.

The system of grades is as follows:

<i>Grade</i>	<i>Significance</i>	<i>Quality Points</i>
A	Excellent	6 per sem. hr.
B+	Very Good	5 per sem. hr.
B	Good	4 per sem. hr.
C+	Above Average	3 per sem. hr.
C	Satisfactory	2 per sem. hr.
D	Passing	1 per sem. hr.
E	Conditional Failure	0
F	Failure	0
I	Incomplete	0
WP	Withdraw while passing	0
WF	Withdraw while failing	0

Quality points, the numerical equivalent of the letter grade, are used to determine the students' rank in class, academic honors, and academic warning. To meet the minimum requirements for graduation all students must have (1) a quality point average of 2.0 on all work attempted and at least 124 hours of course work, (2) a quality point average of 2.0 on the final 30 hours of college work, and (3) a quality point average of 3.0 in the major field.

Conditions, Incompletes, Failures, Probation, and Withdrawals

A grade of conditional failure (E) may be removed by re-examination. This must be accomplished within the third week of the following semester.

An incomplete (I) is given only when circumstances do not justify giving a specific grade. It must be removed within the first nine weeks of the semester following the one in which the incomplete was received. If not removed within this time, the incomplete becomes a failure (F).

A failure (F) cannot be removed from a student's record. However, if a course is repeated, the second grade is recorded as the final grade for the course. If the course is required for graduation or for a major, it should be repeated the next time it is offered. If not required, it may be repeated only with the approval of the adviser and the Dean of the College.

A withdrawal (WP) is given when a student withdrawing from a course before the end of a semester is doing passing work in the course. Otherwise a grade of WF is recorded.

1,0 Students are placed on Academic Probation when their grade point average falls below 1.2. They are placed on Academic Warning if their grade point average falls between 1.2 and 2.0. Regulations governing such status are given in the Student Handbook. Students on Academic Probation for two successive semesters may be asked to withdraw.

Classification

Credit for college work is recorded in "semester hours."

The classification of a student depends upon the amount of college work and the number of quality points he has to his credit, and not upon the length of time he has been in college. A student is classified

- (1) As a senior, upon the completion of ninety semester hours, with grades sufficient to result in an average of 2.0 on all work attempted.
- (2) As a junior, upon the completion of sixty semester hours, with grades sufficient to result in an average of 1.8 on all work attempted.
- (3) As a sophomore, upon the completion of twenty-eight semester hours, with grades sufficient to result in an average of 1.4 on all work attempted.
- (4) As a freshman, if the regular admission requirements have been met.
- (5) As a special student, if, for some approved reason, he is registered for less than twelve semester hours.

Re-Admission

In order to return to college for a second year, the student must have passed a total of at least 26 semester hours with an average of 1.2 on all work attempted. For the third year, at least 60 hours with an average of 1.6 on all work attempted will be required and for the fourth year at least 90 hours with an average of 1.8 on all work attempted. Summer school credits, when approved by the faculty adviser and when in keeping with degree requirements, may be counted in this total.

In order to return to college for a third or fourth year, he must have passed during the previous year a total of twenty-four semester hours with grades sufficient to entitle him to forty-eight quality points. Summer school credits, when approved by his faculty adviser and when in keeping with degree requirements, may be counted in this total.

In meeting these requirements, the total number of semester hours must represent the number of hours actually passed with a grade of "D" or above. No grade of conditional failure (E) may be counted.

In keeping with the twofold purpose of the college, that of quality higher education and Christian citizenship, applicants for admission or re-admission whose records of achievement and citizenship reveal questionable patterns of behavior will be denied the privilege of enrollment or may be given an appropriate conditional status.

Summer School

The college normally conducts a summer session. Though offerings are less varied than during the fall and spring terms, the summer curriculum, nevertheless, includes a wide range of courses for undergraduates, teachers, and high school graduates who wish to qualify for advanced standing. Regular members of St. Andrews Presbyterian College teaching staff and visiting professors make up the faculty of the summer school.

Any student desiring to receive credit toward graduation for summer courses at another institution must have the approval of the corres-

ponding department at St. Andrews Presbyterian College. The institution in which work is taken must be fully accredited. Credit will be granted only for courses of college level which are also allowed toward graduation by the institution conducting the summer school.

After completion of such courses, the student must present an official transcript of his record for the summer term to the Registrar. Write to Director of Summer School, St. Andrews Presbyterian College, Laurinburg, North Carolina, for further information.

Class Attendance

Class attendance is regarded as an essential part of the educational process at St. Andrews Presbyterian College. The student is expected to benefit by classroom discussions as well as by his daily text assignments. In the classroom he gives his reactions and listens to the reactions of his fellow students. In such an educative process, a student suffers a decided loss when he misses class.

In accordance with these principles, all absences have an adverse effect upon the teacher's estimate of the student's progress in the course unless made up to the satisfaction of the instructor. The student is to consider himself responsible to the instructor for making up his work.

Classwork missed while students are away on college-approved business or because of illness should be made up to the satisfaction of the instructor. Although make-up work will not in all cases remove the full adverse effect of the absence, a faculty member will cooperate with the student in his attempt to make up this loss when such absence is necessary. The degree of effect upon grades will vary with the nature and the amount of the work missed and must be measured according to the instructor's best judgment.

Students will file requests to be excused for absence with the Registrar either in advance or immediately upon their return to classes.

Correspondence Work

Full time students may be enrolled in extension courses and evening courses for credit from other colleges or universities only if they get approval in advance from the Dean of the College.

Six semester hours of work taken by correspondence will be accepted by St. Andrews Presbyterian College toward graduation.

Adult Education

The program of Adult Education offers courses for credit, which are taught under the regulations of St. Andrews Presbyterian College. It also provides opportunity for participation in community service programs for which no college credit is given. Write to Director of Adult Education, St. Andrews Presbyterian College, Laurinburg, North Carolina, for further information.

The Curriculum

Three degrees are offered by St. Andrews Presbyterian College: Bachelor of Arts, Bachelor of Science, and Bachelor of Music. Follow-

ing are minimum requirements for graduation: 124 academic credits, a program of independent study and research, a satisfactory grade in the senior comprehensive examination, completion of a program of concentration studies, and two years of physical education. Candidates for each degree are required to complete at least 124 semester hours of work with an average of "C" in all work attempted.

Requirements for the Bachelor of Arts Degree and the Bachelor of Science Degree (except in the three-year cooperative programs)

Basic Liberal Studies

Christianity and Culture	36 semester hours
Science	8 semester hours
Mathematics	6 semester hours
Foreign Language	6 semester hours
Basic English	6 semester hours
Physical Education	4 semester hours
	<hr/> 66 semester hours
Requirements for Major at least 30 or 36 semester hours	
Electives 28 or 22 semester hours	
	<hr/> at least 124 semester hours

Not later than the spring of his sophomore year the student must select the department in which he wishes to major. The requirements in each major field are given at the beginning of the description of courses offered in that department. The additional number of hours required for graduation may be chosen by the student in consultation with his faculty adviser, provided all necessary requirements have been met.

Students may major in Bible, English, Biology, Chemistry, Mathematics, History, Foreign Languages, Human Relations, Business, Christian Education, and Music. Pre-professional training is available for the Ministry, Medicine, Dentistry and Law. Professional training is given for Teaching and Music.

Special Note

The College reserves the right to make changes in particular curricular requirements and offerings, in regulations, and in fees whenever such changes are deemed essential. College catalogs and bulletins are prepared for the purpose of furnishing prospective students and other interested persons with information about the institution. Announcements contained in such printed material are subject to change and may not be regarded as legally binding obligations.



COURSES OF INSTRUCTION

The following pages list the academic courses offered in 1963-64, unless there is specific statement to the contrary. In many departments, where advanced courses are offered only in alternate years, this fact is indicated for such courses.

In general, courses numbered between 100 and 199 are designed for freshmen, those numbered between 200 and 299 for sophomores, and those numbered between 300 and 499 for juniors and seniors. Odd numbers are used for courses ordinarily offered in the first semester and even numbers for those ordinarily offered in the second semester.

A year course is indicated by joining the courses numbers for two successive semesters with a hyphen, e.g. 101-102. *Credit toward graduation will be given for the first semester of such courses only when this is followed by the successful completion of the second semester.* Any exception to this regulation must be stated explicitly in the course description.

The requirements for a departmental major are usually stated immediately preceding the list of courses offered in that department. In a number of areas, however, such as Bible and philosophy, business, human relations, the sciences, and music, a more detailed program for majors has been worked out. These programs are described in detail on pages 75 to 89. Special three-year cooperative programs in engineering, in pre-medical and predental work, in medical technology and in nursing are also offered and these are described on pages 84 to 86.

THE CHRISTIANITY AND CULTURE PROGRAM

The Christianity and Culture Program is a four-year, inter-departmental, general education program required of all B.A. students. Those not taking the B.A. degree take as much of this program as is possible under the requirements for their degree. This program combines studies in Bible, philosophy, history, literature, and the social sciences.

101-102. FRESHMAN YEAR *Credit* 12 s.h.

FIRST SEMESTER. A study of the Hebraic and Greek sources of our culture. This will involve an intensive study of the Old Testament and of the great works of the Golden Age of Greece. The concluding sessions will be devoted to a comparison and contrast of the major characteristics and ideas of these two cultures.

SECOND SEMESTER. A study of the contributions of Christianity (the New Testament) and of classical Graeco-Roman culture to the development of Western civilization. At the end of the semester the major characteristics and ideas of each will be brought together to determine the extent of the influence of each upon the other.

Credit: Bible 101, SURVEY OF THE OLD TESTAMENT... 3 s.h.

Bible 102, SURVEY OF THE NEW TESTAMENT... 3 s.h.

History 101, WESTERN CIVILIZATION..... 3 s.h.

English 205, WORLD LITERATURE..... 3 s.h.

201-202. SOPHOMORE YEAR *Credit* 12 s.h.

FIRST SEMESTER. A study of the development of Western civilization from the fall of Rome through the 17th century, with special reference to the influence of Christianity upon this development. Major areas of study will include the High Middle Ages, the Renaissance, the Reformation and the Age of Reason.

SECOND SEMESTER. A study of the important developments in Western civilization from the eighteenth century to World War I. Major emphasis is placed upon the Enlightenment, the Age of Revolutions, the use of modern science and the fragmentation of the Christian Church.

Credit: English 206, WORLD LITERATURE..... 3 s.h.

Philosophy 201, INTRODUCTION..... 3 s.h.

History 102, WESTERN CIVILIZATION..... 3 s.h.

Social Science 201,

INTRODUCTION TO SOCIAL SCIENCE 3 s.h.

301-302. JUNIOR YEAR *Credit* 6 s.h.

A study of the Afro-Asian cultures and the rising tension between these nations and the established institutions of Western civilization. Some attention will be given to the influence of Christianity upon these non-Western cultures as a consequence of the missionary movement. Major emphasis in the second semester will be upon developments during the twentieth century and upon forces at work in the world in which we live today.

- 401-402. **SENIOR YEAR** *Credit 6 s.h.*
 A course devoted largely to the study of contemporary American culture in its relation to our Christian heritage. A major concern will be the development of the student's own philosophy of life in the light of his dual heritage of culture and the Christian faith. The approach will be largely through problems and case studies.

BIBLE AND CHRISTIAN EDUCATION

Major requirements: For a major in Bible and Christian Education which will prepare a student to become an Associate in Christian Education, the following courses are required: Bible 301, 302, 303, 304, 401, 402; Christian Education 303, 304, 405, 405. Two independent projects are required during the Junior and Senior years; one related to Biblical or theological study, the other to some area of Christian Education. The Christian Education project will consist of observations and one semester of supervised church work. The total number of hours required will be determined in consultation with the professors in the department. For a major in BIBLE the following courses are required: Bible 301, 302, 303, 304, 401, 402, 403, 404. Two independent projects are required during the Junior and Senior years. Both projects should be related to some area of Biblical or theological study. If approved, the project of the Junior year may be continued in the Senior year.

Bible

101. **SURVEY OF THE OLD TESTAMENT** *Credit 3 s.h.*
 A study of the major developments in the faith and life of the Hebrew people from the Exodus through the post-exilic period in the Old Testament documents. (Offered only as a component part of Christianity and Culture 101.)
102. **SURVEY OF THE NEW TESTAMENT** *Credit 3 s.h.*
 A study of the faith and life of the Christian church in the New Testament documents, emphasizing the origins and growth of the Christian community. (Offered only as a component part of Christianity and Culture 102.)
- 1963-4 only (301. **OLD TESTAMENT THEOLOGY** *Credit 3 s.h.*
 An intensive study of several distinctive ideas of the Old Testament such as The Covenant, The Messiah, and The Law. A study of the inter-testament period will be included in this course.
302. **NEW TESTAMENT THEOLOGY** *Credit 3 s.h.*
 An intensive study of several distinctive ideas of the New Testament such as The Kingdom of God, The Church, and Eschatology. A study of the early beginnings of Christianity in the late and post apostolic periods will be included.
- 1964-5 (303. **PROPHETS** *Credit 3 s.h.*
 A study of the rise of the prophetic movement in Israel with special emphasis on the teaching of Amos, Hosea, Micah, Isaiah, and Jeremiah.

1964-5

304. LUKE-ACTS *Credit 3 s.h.*
A study of the person and work of Christ, and of the expansion of the early Church as portrayed in Luke-Acts. Where appropriate some of the letters of Paul will be studied.
401. SYSTEMATIC THEOLOGY *Credit 3 s.h.*
A study of the basic beliefs of the Christian faith. Emphasis will be given to the Reformed tradition as well as to contemporary theological trends.
402. SENIOR SEMINAR IN APPLIED CHRISTIANITY ... *Credit 3 s.h.*
This seminar is designed to provide students with an opportunity to investigate the presuppositions, theories and applications of the Christian faith to life. The seminar procedure and requirements will be arranged by the professor with the students.
403. AMERICAN RELIGIOUS THOUGHT *Credit 3 s.h.*
A study of American religious history. Primary emphasis will be given to the contributions of religious leaders and theologians in America.
404. CONTEMPORARY RELIGIONS OF THE WORLD.... *Credit 3 s.h.*
A study of the historical and contemporary religions of the world, designed to familiarize the student with religious thought other than Christian.
415. METHODS OF TEACHING BIBLE *Credit 3 s.h.*
A course designed to fulfill the requirements for those planning to teach.

Christian Education

303. AN INTRODUCTION TO CHRISTIAN EDUCATION... *Credit 3 s.h.*
A brief historical background of Christian Education and a study of the basic psychological principles employed in the process of Christian Education.
304. THE CHRISTIAN EDUCATION OF YOUTH..... *Credit 3 s.h.*
A study of the factors making for successful work with young people. Special consideration is given to the characteristics and problems of youth and the type of church program necessary to serve their needs.
405. THE CHRISTIAN EDUCATION OF CHILDREN..... *Credit 3 s.h.*
A study of the characteristics and problems of children of various age levels from nursery through junior age. Special consideration is given to the type of church program necessary to serve their needs.
406. THE PROGRAM OF CHRISTIAN EDUCATION
IN THE LOCAL CHURCH *Credit 3 s.h.*
A study of the total program of education in a local church with special emphasis on the administration and practical problems of the church school organization.
407. WEEKDAY CHURCH KINDERGARTEN..... *Credit 3 s.h.*
This course is designed to acquaint students with the church's

program for four and five year old children. It includes a study of the organization, administration, standards, policies, equipment, room arrangement, program and parent-teacher relationships. Some field work in one of the local Weekday Church Kindergartens is required.

PHILOSOPHY

201. INTRODUCTION TO PHILOSOPHY *Credit 3 s.h.*
A study of the development of Western philosophy to the 20th Century. (Offered only as a component part of Christianity and Culture.)
- 301-302. HISTORY OF PHILOSOPHY *Credit 6 s.h.*
A study of Western philosophy using an historical approach, beginning with the Presocratics and including development to the twentieth century.
303. ETHICS *Credit 3 s.h.*
A study of the major alternatives confronting the modern intellectual in developing a view of right and wrong, good and bad, in the light of historical contributions by important philosophers.
304. PHILOSOPHY OF RELIGION *Credit 3 s.h.*
A study of the problems created in the examination of religion by philosophy. The nature of the religious experience, the differences between religion, philosophy and theology, the existence of God, epistemology and religion, religious language and symbolism, are among the areas of study included.
401. CONTEMPORARY PHILOSOPHY:
EMPIRICISM AND LOGICAL ANALYSIS *Credit 3 s.h.*
A study of recent trends, largely British, represented by such philosophers as G. E. Moore, B. Russell, A. J. Ayer, R. Carnap, L. Wittgenstein and others.
402. CONTEMPORARY PHILOSOPHY:
EXISTENTIALISM AND PHENOMENOLOGY *Credit 3 s.h.*
A study of modern trends, largely continental, illustrated by such thinkers as Husserl and Scheler in phenomenology, and Kierkegaard, Nietzsche, Heidegger, Sartre, Unamuno, Berdyaev, Camus, and Ortega y Gasset among the "existentialists."

ART

- 201, 202. COMPOSITION *Credit 6 s.h.*
A study of the elements of pictorial design or composition using a variety of media in black and white, including pencil, charcoal, ink, silkscreen, oils, tempera, and relief prints. The second semester utilizes color instead of black and white, with increasingly complex design problems. (Art 201 is not a prerequisite for 202.) Six laboratory hours per week.

301. COLOR AND DESIGN *Credit 3 s.h.*
A basic course in the field of practical design. Lecture 1 hour; laboratory 4 hours. Offered on demand only.
302. DRAWING AND PAINTING *No Credit*
A course meeting one evening per week designed to give assistance to amateur artists and beginning students in the use of charcoal, watercolors, oils, etc. The approach is visual rather than conceptual. 3 laboratory hours. Fall and Spring semesters.
321. ART IN THE ELEMENTARY SCHOOL *Credit 3 s.h.*
A course designed to meet the needs of elementary teachers. Creative experiences with the various art media including paint, chalk, clay, etc. Emphasis on the relationship of art to the school curriculum. Lecture 1 hour, laboratory 4 hours. Fall and Spring semesters.
350. ART APPRECIATION *Credit 3 s.h.*
An introduction to the development of an appreciation of art through the study and analysis of outstanding historical and contemporary works as well as a brief survey of the important eras and masters in art history. 3 class hours. Fall and Spring semesters.

Drama

201. INTRODUCTION TO THE THEATRE *Credit 3 s.h.*
An introduction to the dramatic art form with emphasis on acting, directing, scene design, set construction and lighting. Lectures and laboratory.
202. HISTORY OF THE THEATRE *Credit 3 s.h.*
A study of the theatre from the Greeks to the Avant Garde with emphasis on the development of the physical theatre.

BUSINESS AND ECONOMICS

The Department of Business and Economics offers the Bachelor of Science degree with majors in Business Administration or in Business Education. Specific requirements for majors in these areas are outlined on pages 77-79.

Business

- 103-104. TYPEWRITING *Credit 4 s.h.*
Development of keyboard techniques and control, letter styles, tabulation, and other typewriting problems. (Students who have had at least one year of typewriting in high school may not take Typewriting 103 for credit. To qualify for Typewriting 104, they must pass a proficiency test on Typewriting 103.) *No credit is given for typing in B.A. degree programs.*
204. ADVANCED TYPEWRITING *Credit 2 s.h.*
Development of speed; letters, business forms and legal documents, office problems.

- 201-202. **SHORTHAND** *Credit 6 s.h.*
Principles of Gregg Shorthand Simplified; development of skill in reading, taking dictation, and transcribing notes.
301. **INTERMEDIATE SHORTHAND AND TRANSCRIPTION** *Credit 3 s.h.*
Shorthand review. Development of skill in taking dictation and transcribing notes. Stress on vocabulary, English fundamentals, and office procedures and standards.
302. **ADVANCED SHORTHAND AND TRANSCRIPTION** *Credit 3 s.h.*
Further development of speed in taking dictation, office-style dictation, transcription techniques, emphasis on production of mailable transcripts.
203. **OFFICE PRACTICE** *Credit 3 s.h.*
Record Administration and Machines.
304. **SECRETARIAL PRACTICE** *Credit 3 s.h.*
Office materials, practices, and procedures; transcription, office machines. (Prerequisite: Office Practice 203 and Shorthand 301.)
305. **BUSINESS COMMUNICATIONS** *Credit 3 s.h.*
A thorough study of the principles involved in writing effective business letters and reports with emphasis on English fundamentals.
308. **BUSINESS FINANCE** *Credit 3 s.h.*
A study of the functions, principles, institutions, and procedures of finance as a major function of marketing. Areas covered include short-term and long-term finance, international finance, and monetary policies and problems. (Prerequisite: Economics 207-208.)
- 315, 316. **BUSINESS LAW** *Credit 6 s.h.*
A survey of law as it applies to business. Contracts, principal and agent, employer and employee, negotiable instruments, bailor and bailee, carriers and shipper, and sale of goods are studied the first semester. Partnerships, corporations, real property and leases, insurance, security devices, bankruptcy, trusts and estates, and government regulations are covered the second semester.
- 209-210. **PRINCIPLES OF ACCOUNTING** *Credit 6 s.h.*
The development of the fundamental principles of accounting for professional and business enterprises through discussions, exercises, workbook, and practice sets.
309. **INTERMEDIATE ACCOUNTING** *Credit 3 s.h.*
An analysis of each item on the balance sheet and the income statement considered from the point of view of matching expenses with revenues. (Prerequisite: Business 210.)
310. **ADVANCED ACCOUNTING** *Credit 3 s.h.*
Advanced theory in the evaluation of alternative methods and procedures for accounting for partnerships and corporations. (Prerequisite: Business 309.)

402. **INCOME TAX ACCOUNTING** *Credit 3 s.h.*
Federal and state income laws; practice in preparing returns for individuals, partnerships, and corporations.
403. **COST ACCOUNTING** *Credit 3 s.h.*
A thorough study of cost systems, including job order, process, standard costs and control of costs. Practice in order and process cost accounting. (Prerequisite: Business 309.)
405. **AUDITING** *Credit 3 s.h.*
A course in auditing theory and practice with auditing procedures established by the American Institute of Certified Public Accountants, including a study of the duties of both junior and senior accountants. (Prerequisite: Business 309.)
406. **ACCOUNTING FOR CONSOLIDATIONS** *Credit 3 s.h.*
Preparation and interpretation of consolidated balance sheet and profit and loss statements, mergers, and divisional statements. (Prerequisite: Business 309.)
404. **STATISTICS** *Credit 3 s.h.*
A study of statistical methods with emphasis upon business and economic data, including such techniques as collecting, classifying, tabulating, graphing, and combining data in frequency distributions, index numbers; time series correlation; and preparation of reports.
312. **MARKETING** *Credit 3 s.h.*
Marketing problems, functions, and institutions, price policies, merchandising, governmental control. (Prerequisite: Economics 207-208.)
313. **RETAILING** *Credit 3 s.h.*
Retailing principles and methods. Emphasis on an understanding of the structure of retailing, the problems associated with store operation, and opportunities in retailing for college-trained men and women. (Prerequisite: Business 312.)
317. **PRINCIPLES OF MANAGEMENT AND ORGANIZATION** *Credit 3 s.h.*
An analysis of business operations, organization, and management.
318. **ADVERTISING** *Credit 3 s.h.*
A wide perspective and understanding of advertising as one of the major marketing functions. The place of advertising in our life, its role in business, how it is produced, how it affects marketing, and the opportunities it offers for creative expression. (Prerequisite: Business 312.)
407. **OFFICE MANAGEMENT** *Credit 3 s.h.*
A study of office organization, buildings, equipment, personnel, supervision, and flow of work and control.
408. **PERSONNEL MANAGEMENT** *Credit 3 s.h.*
The basic principles of management; personnel policies, employment procedures, rating and classification, remuneration plans, handling of grievances with emphasis on human rela-

tions, promotion and transfer of personnel records. (Same content as Psychology 315.)

410. SALESMANSHIP AND SALES PROMOTION *Credit 3 s.h.*
A study covering both the theoretical principles and practical application of modern selling, including personal qualities of a successful salesman, buying motives and the appeals to these motives, methods of arousing interest, use of persuasion and suggestion, overcoming objections and closing the sale. (Prerequisite: Business 312.)
414. SEMINAR *Credit 3 s.h.*
An individual research project with a written report in marketing, management, banking, or business organization under the direction of the faculty.
415. METHODS OF TEACHING BUSINESS SUBJECTS..... *Credit 3 s.h.*
A study of the principles of business education, classroom methods and procedures, the curriculum, and the content of courses.
416. WORK EXPERIENCE *Credit 3 s.h.*
A minimum of 240 hours of approved work experience in an office or business organization with reports and ratings by both employer and supervising instructor.

Economics

- 207-208. PRINCIPLES OF ECONOMICS *Credit 6 s.h.*
A survey of our economic system, production, exchange, distribution and consumption of wealth, business cycles, and other economic problems. (Prerequisite to all courses in Economics.)
305. LABOR PROBLEMS *Credit 3 s.h.*
Labor problems with particular emphasis upon their legal aspect; foundation of the labor movement, the social and political program it seeks to carry through, the labor contract, social insurance legislation, and child labor laws.
306. COMPARATIVE ECONOMIC SYSTEMS *Credit 3 s.h.*
A study of the theory, programs, and practices of various economic systems with special emphasis on capitalism, communism, fascism, socialism, and cooperation.
307. BUSINESS CYCLES AND FORECASTING..... *Credit 3 s.h.*
The nature of periodic fluctuations of economic activity and an analysis of the causes of these fluctuations; methods of controlling or modifying cyclical movements; business forecasting techniques.
314. CONSUMER ECONOMICS *Credit 3 s.h.*
Personal and family money management, choice of goods, housing, insurance, investments, and private and public aids for the consumer.
318. ECONOMIC GEOGRAPHY *Credit 3 s.h.*
The resources and industries of the world, including produc-

tion, distribution, and consumption of the basic commodities. Special emphasis on American resources.

406. MONEY AND BANKINGCredit 3 s.h.
A study of the causes and effects of changes in the value of money, including the Federal Reserve System, the Treasury, international banking, commercial banking, monetary policy, and fiscal policy. (Prerequisite: Business 308.)

EDUCATION AND PSYCHOLOGY

The program of offerings by the Department of Education and Psychology is designed to meet the needs of students as follows:

1. The liberal arts student who wishes to take *elective* courses for personal enrichment and vocational exploration.

2. The liberal arts student who plans to qualify for *certification to teach* in either the elementary or secondary public schools. (See details below.)

3. The liberal arts student who wishes to major in *Human Relations* in order to prepare for entrance positions in the fields of Psychology, Personnel or Social Work or for graduate study in these areas. (See details below.)

Teacher certification requirements for North Carolina have undergone revisions which will become effective in September, 1966, and all North Carolina institutions of higher education must submit proposed programs to the North Carolina Department of Public Instruction for approval. St. Andrews is revising its programs of elementary and secondary teacher education, and details of these revisions will be announced in later publications.

Entering freshmen in September, 1963, will be the first class to graduate under the provisions of the fully revised new approach to teacher education. For the Freshman year, each such student should register for the typical liberal arts program. Upperclass students, in the meanwhile, will continue to prepare to teach under the present North Carolina state requirements which are stated in the 1962-63 catalog of the College. These students are urged to confer with the departmental staff about their programs. Further announcements of recommended programs for upperclassmen will be made by the Department of Education and Psychology prior to the 1963-1964 session.

Opportunity for guided observation and supervised teaching is provided for qualified seniors in the public schools of North and South Carolina near Laurinburg. The Department also maintains a Placement Service to assist prospective teachers in locating suitable positions.

The Human Relations major program is available to students who have entered St. Andrews as freshmen in September, 1961, or subsequently. The description of this program is found on page 76.

Education

301. INTRODUCTION TO EDUCATIONCredit 3 s.h.
A study of the vocation of teaching and the organization and functions of public education in America. Designed for students entering the field of teacher education.

303. HISTORY OF EDUCATION *Credit 3 s.h.*
A study of educational theories and practices from earliest times to the present, with emphasis on the development of education in the United States.
304. EDUCATIONAL MEASUREMENTS *Credit 3 s.h.*
This course is designed to give an understanding of the function of measurement in education, and a working knowledge of materials, methods, and techniques used in measuring ability and achievement. Practice in administering tests and interpreting results is a part of the course.
312. GUIDANCE AND COUNSELING *Credit 3 s.h.*
An introductory course in the purposes, processes, organization and resources for guidance and counseling within the educational institution. Special attention will be given to the practical aspects of such a course from the viewpoint of the teacher, guidance specialist and the administrator, by introducing case studies.
317. READING FOR THE ELEMENTARY SCHOOL *Credit 3 s.h.*
A course designed for the study of reading skills which are developed in grades 1-8. Readiness, vocabulary building, word construction, phonetic analysis, comprehension, and developmental reading will be stressed.
319. CHILDREN'S LITERATURE *Credit 3 s.h.*
A survey of traditional and modern literature suitable for children in the elementary school, together with a discussion of its place in the integrated curriculum.
404. GRAMMAR GRADE METHODS *Credit 3 s.h.*
Modern methods and techniques of guiding the educational growth and development of the grammar grade child through mastery and purposeful use of the tool subjects—arithmetic, reading, language, spelling, and writing—and through integrated instruction centering in child interests and activities in social studies, natural sciences, and arts.
405. PRINCIPLES OF ELEMENTARY EDUCATION *Credit 3 s.h.*
In this course consideration is given to changing conceptions of education with emphasis upon the function, content, organization, and conduct of the elementary school, the needs and methods of guidance of the elementary student.
406. PRIMARY METHODS *Credit 3 s.h.*
Modern methods and techniques of guiding the educational growth and development of the primary child through integrated instruction in the tool subjects—arithmetic, reading, language, and writing—as used in experience in social life, natural sciences and arts, and centering in adjustment to classroom activities and cooperative effort in living and working together.
407. PRINCIPLES OF SECONDARY EDUCATION *Credit 3 s.h.*
A study of the American high school, its development, func-

tion, organization, and curriculum; and principles of guiding and instructing high school youth.

408. PHILOSOPHY OF EDUCATION *Credit 3 s.h.*
The purpose of this course is to guide prospective teachers in their evaluation of education theory and practice in terms of basic philosophies, and to aid in their development of a philosophy of education which will function as a basis for effective teaching.
415. STUDENT TEACHING *Credit 3 s.h.*
This course provides for observation and teaching in elementary grades or in the high school, and for participation in various school activities. Regular conferences with supervising teachers furnish opportunity for evaluation and guidance. A minimum of ninety hours in the classroom is required, at least forty-five of which must be teaching. Admission to this course is granted only to qualified seniors. Additional credit may be earned for certificate requirements of other states.

Psychology

201. GENERAL PSYCHOLOGY *Credit 3 s.h.*
An introductory study of the principles of human behavior and such topics as heredity, maturation, development, motivation, learning and thinking are considered. This course is a prerequisite for all other courses in Psychology except Psychology 305, 306, 307, and 308.
301. MENTAL HEALTH *Credit 3 s.h.*
An introductory study of the personality factors important in mental health, and the causes and care for mental illnesses. Emphasis is placed upon those principles which effect the development of good mental health.
305. EDUCATIONAL PSYCHOLOGY *Credit 3 s.h.*
A study of individual differences; growth and adjustment; the learning process; motivation; basic principles of guidance and evaluation of learning. This course is a prerequisite for Psychology 306, 307, and 308.
306. PSYCHOLOGY OF CHILDHOOD *Credit 3 s.h.*
A study of the physical, mental, emotional, and social development of the child. The course provides for experiences with children in natural situations as a means of understanding child nature and needs.
307. PSYCHOLOGY OF EXCEPTIONAL CHILDREN *Credit 3 s.h.*
A study of the special needs of atypical children and their problems of adjustment.
308. PSYCHOLOGY OF ADOLESCENCE *Credit 3 s.h.*
A study of the physical, mental, emotional, and social characteristics of adolescent youth in order to understand their problems and potentialities.
315. BUSINESS AND INDUSTRIAL PSYCHOLOGY *Credit 3 s.h.*
A course designed to acquaint the student with the special

areas of psychology applicable to business and industry. Such topics as employment; job analysis and placement; employee efficiency, morale and up-grading; employee problems and counseling; as well as labor, employee and customer relations, are considered.

320. SOCIAL PSYCHOLOGY *Credit 3 s.h.*
A course dealing with those topics which are related to the fields of Psychology and Sociology, and involving both individual and group psychological behavior implications. It includes a treatment of social institutions and pressures which influence prejudices, attitudes, beliefs and propaganda.
401. PERSONALITY DEVELOPMENT *Credit 3 s.h.*
Prerequisite: Psychology 301. This course involves the study of personality development and the theories and dynamics of such development. It seeks to help the student discover those factors and processes which contribute to personality development, with particular emphasis upon the well-adjusted personality.
402. ABNORMAL PSYCHOLOGY *Credit 3 s.h.*
Prerequisite: Psychology 401. This study is designed to investigate carefully the factors, processes and conditions which cause personality deviations (neuroses, psychoses, mental deficiencies). Also, abnormal behavior patterns are identified and appropriate therapeutic techniques considered.
411. SEMINAR IN PSYCHOLOGY *Credit 3 s.h.*
In special areas of Psychology, class sessions will serve to emphasize the history and current trends in the field. Field trips and brief laboratory sessions in the College Guidance Center and similar agencies will be planned.

ENGLISH

Requirements for a major in English: A minimum of thirty hours in English beyond the freshman level, including the following courses: 201-202; 203 or 204; 310, 307, or 308; 403 or 404; 407 or 408; 406; at least one additional 400-course. English 303 is required for those seeking a North Carolina teacher's certificate in English. English majors who plan to enter graduate school are reminded that a reading knowledge of French or German is usually required in the master's program, and both for the doctorate.

- 101-102. COMPOSITION AND RHETORIC *Credit 6 s.h.*
A reading and writing course for freshmen, including intensive reading and discussion and frequent writing, involving the handling of source materials. The second semester includes an introduction to literature. This course is a prerequisite for all other English courses.
- 201, 202. SURVEY OF ENGLISH LITERATURE *Credit 6 s.h.*
A study of the masters of English poetry and prose from Beowulf through the nineteenth century.

- 203, 204. AMERICAN LITERATURE *Credit 6 s.h.*
A survey course emphasizing major writers from 1800 to the present.
205. WORLD LITERATURE (Greek and Roman)..... *Credit 3 s.h.*
Major works of literature from Greek and Roman writers studied in translation. (Offered only as a component part of Christianity and Culture 101-102.)
206. WORLD LITERATURE (Medieval and Modern).. *Credit 3 s.h.*
Major works of European literature from the Medieval and Modern periods studied in translation. (Offered only as a component part of Christianity and Culture 201-202.)
303. ADVANCED GRAMMAR..... *Credit 3 s.h.*
A study of the various approaches, traditional and modern, to the structure of the English language. Offered annually.
305. ENGLISH LITERATURE, 1660-1744..... *Credit 3 s.h.*
English Literature from the Restoration to the death of Pope. Alternate years. Offered fall, 1963.
306. ENGLISH LITERATURE, 1744-1798 *Credit 3 s.h.*
English literature from the death of Pope to the Romantic Period. Alternate years. Offered spring, 1964.
307. VICTORIAN POETRY *Credit 3 s.h.*
An intensive study of the poetry of the Victorian Period with particular emphasis on Tennyson, Browning, and Arnold. Alternate years. Offered fall, 1964.
308. VICTORIAN PROSE *Credit 3 s.h.*
An intensive study of the major essayists of the period. A number of novels will be included in collateral reading. Alternate years. Offered spring, 1965.
310. POETRY AND PROSE OF THE ROMANTIC PERIOD *Credit 3 s.h.*
Study of the chief Romantic poets and writers of critical and imaginative prose, exclusive of the novel. Alternate years. Offered spring, 1965.
312. THE ENGLISH NOVEL *Credit 3 s.h.*
A study of the English novel from Richardson to Hardy. Lecture and discussion. Reading of eighteen to twenty novels. Alternate years. Offered spring, 1965.
313. ENGLISH DRAMA *Credit 3 s.h.*
A study of representative plays illustrating the development of drama in England from the beginnings to the closing of the theaters in 1642. Alternate years. Offered fall, 1964.
314. NON-DRAMATIC LITERATURE OF THE
ENGLISH RENAISSANCE *Credit 3 s.h.*
Poetry and prose of the English Renaissance with special emphasis on Spenser. Alternate years. Offered spring, 1965.
315. ADVANCED COMPOSITION *Credit 3 s.h.*
Training and practice in the forms of literary composition. The student will be given considerable latitude in choosing

the form upon which he wants to concentrate. Open to juniors and seniors by permission of instructor. Alternate years. Offered fall, 1964.

402. MODERN DRAMA Credit 3 s.h.
Extensive reading and study in the works of representative modern European and American dramatists with special attention to purposes, themes, and techniques. Alternate years. Offered spring, 1964.
403. CHAUCER Credit 3 s.h.
Intensive study of *The Canterbury Tales* and some of the minor poems. Emphasis will be on literary values, but considerable attention will be given to Chaucer's language. Students will read *Troilus and Criseyde*. Alternate years. Offered fall, 1964.
404. MILTON Credit 3 s.h.
Intensive reading of Milton's poetry with major emphasis on *Paradise Lost* and *Samson Agonistes*. Collateral readings from the prose. Alternate years. Offered spring, 1964.
406. DEVELOPMENT OF THE ENGLISH LANGUAGE Credit 3 s.h.
Study of the history of the language, its morphology, syntax, and linguistic relationships. Alternate years. Offered spring, 1965.
407. SHAKESPEARE: THE TRAGEDIES Credit 3 s.h.
An intensive study of the major tragedies. Alternate years. Offered fall, 1963.
408. SHAKESPEARE: COMEDIES AND HISTORIES Credit 3 s.h.
Study of about ten plays. Collateral reading will include a reputable biography. Alternate years. Offered spring, 1965.
409. MODERN POETRY Credit 3 s.h.
Study of British and American poetry of the 20th century. Alternate years. Offered fall, 1963.
410. MODERN NOVEL Credit 3 s.h.
Study of the British and American novel of the 20th century. Alternate years. Offered spring, 1964.
411. EMERSON, THOREAU, WHITMAN Credit 3 s.h.
Alternate years. Offered spring, 1964.
412. HAWTHORNE, MELVILLE, TWAIN Credit 3 s.h.
Alternate years. Offered fall, 1963.
415. THE TEACHING OF ENGLISH LITERATURE AND
COMPOSITION IN HIGH SCHOOL Credit 3 s.h.
Study of methods of teaching English in high school and consideration of problems the prospective high school English teacher is likely to meet. Not offered for credit toward the English major. Offered annually.

FOREIGN LANGUAGES

French

Major requirements: A minimum of 24 hours in French beyond 201-202, normally including French 301-302, 304, 305. Students planning to teach will need to include French 401, 403, and 415 in their program of study.

- ✕ 101-102. ELEMENTARY FRENCH *Credit 6 s.h.*
Fundamentals of grammar, composition, pronunciation, and diction. Regular use of the language laboratory is required in this course. During the second semester, selected graded readings from French authors will be studied. Students who present two high school units in French may not take French 101-102 for credit.
- ✕ 201-202. INTERMEDIATE FRENCH *Credit 6 s.h.*
Prerequisite: 101-102, or two high school units with evidence on placement test that student is prepared to enter this course. A thorough review of grammar, verb forms, composition, diction and pronunciation. Selected readings from French authors will also be studied. Students are required to use the language laboratory regularly. Upon completion of this course, students will be expected to demonstrate proficiency in the language.
- ↪ 301-302. SURVEY OF FRENCH LITERATURE *Credit 6 s.h.*
Prerequisite: 201-202. A survey of the masterpieces of French literature from the Middle Ages to the present. Lectures and class discussions on the development of the literature, style, and syntax. Collateral readings and reports. This course is normally prerequisite to all more advanced literature courses.
- ↪ 304. FRENCH CONVERSATION *Credit 3 s.h.*
Prerequisite: 201-202. Intermediate course in conversation, conducted in French and designed to build basic, practical conversational vocabulary. Some use will be made of the language laboratory.
- ↪ 305. FRENCH HISTORY AND CIVILIZATION *Credit 3 s.h.*
Prerequisite: 301-302 or 304. A course designed to present the development of French culture from early times to the present day, with emphasis on France's place in the contemporary world. Alternate years. Offered fall, 1964.
317. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY *Credit 3 s.h.*
Prerequisite: 301-302 or permission. A study of the literature of the seventeenth century, with special emphasis on the *Grands Classiques*. Alternate years. Offered fall, 1963.
318. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY *Credit 3 s.h.*
Prerequisite: 301-302 or permission. Study of the eighteenth century French literature, including the neo-classical writers, *philosophes*, and precursors of Romanticism. Alternate years. Offered spring, 1964.

319. FRENCH LITERATURE OF THE NINETEENTH CENTURY *Credit 3 s.h.*
Prerequisite: 301-302 or permission. A study of representative authors and major movements of nineteenth century French literature, including Romanticism, Realism, Naturalism, and Symbolism. Alternate years. Offered fall, 1964.
320. CONTEMPORARY FRENCH LITERATURE.....*Credit 3 s.h.*
Prerequisite: 301-302 or permission. A study of the major trends in French literature of the twentieth century and of authors representing each movement. Alternate years. Offered spring, 1965.
- 401. ADVANCED FRENCH GRAMMAR AND COMPOSITION*Credit 3 s.h.*
Prerequisite: 304. A course designed to give students a greater knowledge of French grammar than can be acquired in lower level courses. Some opportunity will be offered for free composition. Alternate years. Offered fall, 1963.
- 403. PHONETICS AND ORAL PRACTICE*Credit 3 s.h.*
Prerequisite: 304. A course in the pronunciation of French with ample opportunity for practice in reading and speaking French. Some attention will be given to pronunciation problems likely to be encountered by the French teacher. Students will make regular use of the language laboratory. Alternate years. Offered fall, 1964.
- 415. MODERN LANGUAGE IN THE HIGH SCHOOL *Credit 3 s.h.*
A study of methods, materials, and problems of teaching modern languages in the high school. Required of prospective teachers. THIS COURSE DOES NOT COUNT TOWARD A MAJOR IN FRENCH.
416. SEMINAR *Credit 3 s.h.*
Normally open to seniors, with permission of the Department. This course will allow students to explore some aspect of French literature or civilization in more detail than is generally possible in regular courses. Depending upon the interests of the students, the seminar will concentrate on a genre, a movement, or a major writer. Alternate years. Offered 1964-65.

Spanish

Major requirements: A minimum of 24 hours in Spanish beyond 201-202, including Spanish 301 and 303. Students planning to teach must take Spanish 415.

- 101-102. ELEMENTARY SPANISH*Credit 6 s.h.*
Fundamentals of grammar, composition, pronunciation, and diction. Students who present two high school units in Spanish may not take Spanish 101-102 for credit. Regular use of the language laboratory is required in this course.
- 201-202. INTERMEDIATE SPANISH*Credit 6 s.h.*
Prerequisite: 101-102 or two high school units with evidence on placement test that the student is prepared to enter this

course. A thorough review of grammar, verb forms, composition, diction, and pronunciation, utilizing readings from Spanish authors. Upon completion of this course, students will be expected to demonstrate proficiency in the language. Students are required to use the language laboratory regularly.

301. SPANISH HISTORY AND CIVILIZATION*Credit 3 s.h.*
Prerequisite: 201-202. A survey of Spanish history and civilization from early times to the present day as a background for the study of Spanish literature. Parallel readings and reports are required.
303. SPANISH CONVERSATION*Credit 3 s.h.*
Prerequisite: 201-202. Intermediate course in conversation conducted in Spanish. The course is designed to build a basic, practical conversational vocabulary. It will require frequent use of the laboratory.
304. SURVEY OF SPANISH LITERATURE*Credit 3 s.h.*
Prerequisite: 301. A survey of Spanish literature. Emphasis will be on the major authors and movements.
- 401-402. SPANISH POETRY*Credit 6 s.h.*
Prerequisite: 301. A survey of Spanish lyric poetry from its beginnings to the contemporaries with emphasis on the *Modernistas*. Alternate years. Offered 1963.
- 403-404. SPANISH DRAMA*Credit 6 s.h.*
Prerequisite: 301. A study of Spanish drama with emphasis on the School of Lope de Vega and contemporary drama. Alternate years. Offered 1964.
- 405-406. SPANISH PROSE FICTION*Credit 6 s.h.*
Prerequisite: 301. A study of Spanish prose fiction with emphasis on Cervantes in the first semester and on contemporary works in the second. Alternate years. Offered 1963.
408. ADVANCED SPANISH COMPOSITION AND
ORAL PRACTICE*Credit 3 s.h.*
Prerequisite: 303. Intensive practice in composition with emphasis on interpretive reading of Spanish and use of the laboratory. Alternate years. Offered 1964.
415. MODERN LANGUAGE IN THE HIGH SCHOOL*Credit 3 s.h.*
Required of those who plan to teach Spanish in high school. See French 415.

German

- 101-102. ELEMENTARY GERMAN*Credit 6 s.h.*
Fundamentals of grammar, composition, phonetics, pronunciation and diction and, during the second semester, selected graded readings from representative German authors. Students who have acquired two high school units in German may not take German 101-102.
- 201-202. INTERMEDIATE GERMAN*Credit 6 s.h.*
Thorough review of grammar, verb drills, composition, dic-

tion and pronunciation and, during the second semester, selected prose readings from German authors. Open to students who have completed German 101-102 or to those who present two units of high school German and who, by placement test, show that they are sufficiently prepared to enter this course.

- 301-302. ADVANCED GERMANCredit 6 s.h.
Translation of significant texts of the late eighteenth, nineteenth and twentieth centuries, and discussions in class of the development of literature, style and syntax. Collateral readings and reports are expected. Open to students who have completed German 201-202 or to those who present four units of high school German and who, by placement test, show that they are sufficiently prepared to enter this course.

Latin

- 201-202. INTERMEDIATE LATINCredit 6 s.h.
Translation from Cicero's *Orations* and Vergil's *Aeneid*, together with advanced work in pronunciation and grammar, and use of the language laboratory. Open to students who present two units of high school Latin and who show by placement test that they are prepared to enter the course.
- 301-302. CICERO'S DE SENECTUTE, SELECTIONS FROM OVID AND OTHER LATIN POETS AND DRAMATISTSCredit 6 s.h.
Open to students who have completed Latin 201-202 or who offer four units of high school Latin and who show by placement tests that they are prepared to enter the course. Offered as needed.
- 303-304. LATIN PROSE AND POETRYCredit 6 s.h.
Prerequisite: 201-202, 301-302. Readings from Horace, Pliny, Plautus, Cicero's *Letters*. Consideration of social and political life in Rome at close of Republic. Offered as needed.

Greek

- 101-102. ELEMENTARY GREEKCredit 6 s.h.
Grammar, syntax, pronunciation, and translation. During second semester, selected readings from Classical Greek and *Koine*. Assigned readings in English of Greek history and literature. Not open for credit to students who offer two units of high school Greek.
- 201-202. INTERMEDIATE GREEKCredit 6 s.h.
Translations from Homer's *Iliad*, Xenophon's *Anabasis*, and other Classical Greek literature, and from the Gospel of John. Assigned readings in English in Greek culture and literature. Some use of language laboratory. Prerequisite: Greek 101-102 or equivalent. Offered as needed.
- 203-204. GREEK NEW TESTAMENTCredit 6 s.h.
The Synoptic Gospels and the Acts, and some of the Epistles. Use of language laboratory. Prerequisite: Greek 101-102 or equivalent.

HISTORY AND SOCIAL SCIENCE

Three majors are offered within the department: in History, in History and Political Science, and in Social Studies. (The requirements for the Human Relations major, emphasizing Psychology and Sociology, are listed on page 76.) The specific requirements listed below are in addition to the Christianity and Culture program: (a) for a major in History, twenty-four hours of History courses, including History 201-202 and 422; (b) for a major in History and Political Science, fifteen hours in History, including History 201-202, and fifteen hours of Political Science, including Political Science 201 and 422; (c) for a major in Social Studies (for secondary teachers), eighteen hours in History, including History 201-202 and 422, Political Science 201, Sociology 201, Economics 207-208, and Geography 201. The Social Studies major will meet certification requirements for prospective teachers in the fields of History and Social Studies. The pattern of all elective courses will be determined in consultation with the departmental advisor.

History

- 101. WESTERN CIVILIZATION (ANCIENT HISTORY) . . . *Credit* 3 s.h.
A study of the foundations of Western civilization in the Ancient Near East, Greece and Rome. (Offered only as a component part of Christianity and Culture 101-102.)
- 102. WESTERN CIVILIZATION (MEDIEVAL AND
MODERN HISTORY) *Credit* 3 s.h.
A study of the development of Western civilization from the Middle Ages to World War I. (Offered only as a component part of Christianity and Culture 201-202.)
- 201-202. HISTORY OF THE UNITED STATES *Credit* 6 s.h.
From the discovery of the New World to the present, emphasizing social, intellectual, cultural and political life.
- 301. ECONOMIC HISTORY OF THE UNITED STATES . . . *Credit* 3 s.h.
The development of American economic institutions, the growth and changes in economic forces, and contemporary economic problems. Prerequisite: History 201-202 or Economics 207-208.
- 302. DIPLOMATIC HISTORY OF THE UNITED STATES . . *Credit* 3 s.h.
American relations with foreign nations from 1775 to the present. Prerequisite: History 201-202.
- 303. MODERN RUSSIAN HISTORY *Credit* 3 s.h.
The fall of the Tsarist regime, the Bolshevik Revolution and the growth of the Soviet State. Prerequisite: Christianity and Culture 201-202.
- 304. LATIN AMERICAN HISTORY *Credit* 3 s.h.
A study of the Caribbean area and South America with emphasis on contemporary problems. Prerequisite: History 201-202.
- 305-306. HISTORY OF ENGLAND AND SCOTLAND *Credit* 6 s.h.
The British Isles from early times to the present day. Prerequisite: Christianity and Culture 201-202.

307. HISTORY OF THE SOUTH *Credit 3 s.h.*
An emphasis upon trends and attitudes since the Civil War.
Prerequisite: History 201-202.
311. THE COLONIAL PERIOD AND THE
REVOLUTIONARY ERA *Credit 3 s.h.*
A study of the intellectual and institutional history of the
colonial period and the American Revolution to the adoption
of the Constitution in 1789. Prerequisite: History 201-202.
- 407-408. THE WORLD IN THE TWENTIETH CENTURY *Credit 6 s.h.*
An examination of American domestic and foreign affairs with
a study of major foreign countries and international relations
since 1900. Prerequisite: History 201-202.
415. METHODS OF TEACHING HISTORY *Credit 3 s.h.*
A course designed for certification of teachers. (Does not apply
toward a major in the department.)
422. SENIOR SEMINAR *Credit 3 s.h.*
Readings, papers, discussion of selected topics, individual proj-
ects. This course provides an opportunity for small groups of
advanced students to study, under the direction of the depart-
ment, advanced topics in their special fields of interest.
Prerequisite: Junior or Senior standing and consent of the
Department.

Political Science

201. AMERICAN POLITICS: NATIONAL GOVERNMENT .. *Credit 3 s.h.*
An introduction to the structure and operations of the national
government, its constitutional basis, and its functions in a
democratic society.
202. AMERICAN POLITICS: STATE AND LOCAL
GOVERNMENT *Credit 3 s.h.*
An introduction to the organization, powers, and operations
of typical state and local governments in the United States,
including a consideration of contemporary problems. Prerequi-
site: Political Science 201.
311. HISTORY OF POLITICAL THEORY *Credit 3 s.h.*
A study of representative theories in the Western political
tradition from the classical, medieval, and modern periods to
the middle of the nineteenth century.
314. RECENT AND CONTEMPORARY POLITICAL
THOUGHT *Credit 3 s.h.*
A study of the competitive political systems in the Western
World during the nineteenth and twentieth centuries, with
emphasis upon the current conflict between the democratic
and communist ideologies.
321. COMPARATIVE GOVERNMENT AND
CONSTITUTIONS *Credit 3 s.h.*
A comparative study of the political systems of leading na-

tional powers, their distinctive forms of government, and the course of recent developments. Prerequisite: Political Science 201.

422. SENIOR SEMINAR IN POLITICAL SCIENCE *Credit 3 s.h.*
A program of directed study for advanced students providing an opportunity for reading and research on topics of special interest in the field of political science and including group discussions on topics of current concern. For History and Political Science Majors only.

Social Science

201. INTRODUCTION TO SOCIAL SCIENCE *Credit 3 s.h.*
A general introduction to the Social Sciences with emphasis on Sociology, Economics, and Political Science in their historical origins. (Offered only as a component part of Christianity and Culture.)

Sociology

201. GENERAL SOCIOLOGY *Credit 3 s.h.*
A study of human society with emphasis on groups, institutions, social classes, social processes, and ways of thinking and living associated with group activity.
309. CONTEMPORARY SOCIAL PROBLEMS *Credit 3 s.h.*
A study of the explanations for social change and of how divergent values create social problems. The major areas of tension within which contemporary social problems arise are given particular attention.
310. INTRODUCTION TO SOCIAL WORK *Credit 3 s.h.*
A study of the field of social work: the development of work concepts and philosophy, the types of social agencies, the role of the modern social worker and of the institutional framework within which he functions. Prerequisite: Sociology 201.
311. CHRISTIAN MARRIAGE AND FAMILY LIFE *Credit 3 s.h.*
A study of the development of these two social institutions with consideration given to such problems as: woman's position, courtship, marital adjustments, safeguarding the marriage relationship, divorce, and social changes affecting the family.
403. AMERICAN SOCIAL STRUCTURE *Credit 3 s.h.*
An analysis of the social organization of the United States with reference to cultural norms, social stratification, and the inter-relations of social institutions. Emphasis will be placed on new trends, such as the accelerating rate of social change, the assimilation to a new status of Hawaii and Alaska, and the increasing complexity of our relations to other countries. Prerequisite: Sociology 201.
404. THE COMMUNITY *Credit 3 s.h.*
A qualitative study of community life today and of the changing role of the local community in the larger society. The

patterns of social interaction found in rural, urban, and metropolitan communities are analyzed. Prerequisite: Sociology 201.

Geography

301. GEOGRAPHY OF THE AMERICASCredit 3 s.h.
The geography of the Western hemisphere, with special emphasis on North America.
318. ECONOMIC GEOGRAPHYCredit 3 s.h.
The resources and industries of the world, including production, distribution, and consumption of the basic commodities. Special emphasis is given to American resources.

HOME ECONOMICS

Major Requirements: *All Home Economics Majors* (Freshman and Sophomore Years): Christianity and Culture (12 hours), Chemistry 201-202, Biology 201-202, English 101-102, Foreign Language (6 hours), History (6 hours), Clothing 103, Foods 104, Clothing 204, Foods 201. *Teachers, Extension Workers and Demonstrators*: Art 321, Physics 101, Marriage and Family 405, Nutrition 309, Clothing 307 or 407 or 408, Home Management 402, Education 305 or 308, Housing 310, Psychology 305 or 306, Education 407, 418, Home Economics Methods 415, Education 303 or 408, Child Development 412, Home Management 403, Economics 321, Clothing 407 or 408.

Dietitians: Physics 303, Psychology 201, Marriage and Family 405, Nutrition 309, Household Economics 305, Housing 310, Child Development 412, Clothing 307, Economics 321, Home Management 403, Nutrition 409, Psychology 306 or 308.

The major in Home Economics will only be offered to students who entered St. Andrews before 1963.

All Home Economics courses are open to non-majors who have completed the necessary requirements.

103. CLOTHING SELECTION AND CONSTRUCTIONCredit 3 s.h.
Fundamental principles in selection, purchase, and construction of clothing and textiles for the individual. 4 laboratory hours, 1 class hour.
104. FOOD SELECTION AND PREPARATIONCredit 3 s.h.
Emphasis in this course is placed upon standards of selection, preparation, and service of foods. 4 laboratory hours, 1 class hour.
201. MEAL STUDYCredit 3 s.h.
This course includes the study of planning, marketing, selection, storage, preparation, and serving of food for different occasions at different cost levels. 4 laboratory hours, 1 class hour.
204. COSTUME DESIGN AND CONSTRUCTIONCredit 3 s.h.
Prerequisite: Clothing 103. The application of art principles to dress designing and the construction of garments from designed patterns. 4 laboratory hours, 1 class hour.

224. FOOD PREPARATION AND MEAL STUDY*Credit 3 s.h.*
The selection, purchase, storage, and preparation of food; the planning and serving of meals for different occasions at varying cost levels. Planned for non-majors. 2 laboratory hours, 2 class hours.
305. HOUSEHOLD ECONOMICS*Credit 3 s.h.*
Principles and problems of the consumer-buyer; organization and management of household activities, time, labor, and income as they affect family relationships.
307. FAMILY CLOTHING*Credit 3 s.h.*
Problems in selection of clothing for the family from viewpoint of design, color, and economy.
309. NUTRITION AND DIETETICS*Credit 3 s.h.*
Study of the nutritive requirements of the body for normal health and development, emphasizing the relationship of food to health and efficiency; selection of food for various ages; dietaries for families of different incomes.
310. THE HOUSE AND ITS FURNISHINGS*Credit 3 s.h.*
A study of the house as a unit and the relationship of its integral parts based on the needs of families of varying incomes. Attention is given to design, floor plans, site, cost, legal matters, and landscaping. Emphasis is placed upon the application of art principles to problems in furnishings and decoration and desirable qualities in merchandise for the home. 4 laboratory hours, 1 class hour.
402. HOME MANAGEMENT*Credit 3 s.h.*
A study of the place of management in homemaking and family life with special emphasis on labor and time saving methods, and factors that constitute household managerial ability. This will be required of all majors as a prerequisite for Home Management Residence.
403. HOME MANAGEMENT HOUSE RESIDENCE*Credit 3 s.h.*
Residence in home management house including meal planning and preparation at varying cost levels, organization, informal home entertaining. Required of all home economics seniors. Resident students \$25.00; non-resident \$75.00.
407. CLOTHING CONSTRUCTION*Credit 3 s.h.*
Prerequisite: Clothing 103, 204. Advanced techniques in clothing construction; pattern adaptations; skills developed through problems in tailoring. 4 laboratory hours, 1 class hour.
408. TEXTILES*Credit 3 s.h.*
The study of textiles from raw materials through construction, identification, analysis, choice, use, and care of fabrics. 2 laboratory hours, 2 class hours.
409. NUTRITION IN DISEASE*Credit 3 s.h.*
Prerequisite: Nutrition 309. Required for dietetics majors. This course deals with nutrition as related to the more common

diseases as well as disorders due to inadequate diets that may be corrected in the home. 2 laboratory hours, 2 class hours.

412. CHILD DEVELOPMENT *Credit 3 s.h.*
A study of the physical, mental, and social development of the child. Theory and practice used in nursery school education. Laboratory observation of preschool child.
415. METHODS OF TEACHING HOME ECONOMICS *Credit 3 s.h.*
This course includes a survey of Home Economics education, methods, classroom procedures, evaluation and teaching aids in Home Economics.

Students should provide themselves with at least two white uniforms and hair nets to be worn in all laboratory classes in Foods and Nutrition.

MATHEMATICS

Major Requirements: 24 semester hours in courses numbered 200 and above, including 207, 208, 303, 401 or 305, and 405 or 405. The major student who plans to do graduate work is reminded that, due to the important mathematical literature in French and German, it is desirable to obtain a reading knowledge of at least one of these languages as an undergraduate.

- 103-104. INTRODUCTION TO MATHEMATICAL ANALYSIS *Credit 6 s.h.*
Number systems, inequalities, graphs, exponential and logarithmic functions, circular functions, inverse functions, mathematical induction, theory of equations, introduction to analytics. Emphasizes the fundamental concepts on which mathematical study is based. The axiomatic approach is given a prominent place. An effort is made to relate the contributions of mathematics to our culture.
- 105-106. ENGINEERING MATHEMATICS *Credit 6 s.h.*
The real numbers, functions and graphs, linear equations and determinants, quadratic equations, inequalities, proportion and variation, binomial theorem, progressions, exponential and logarithmic functions, trigonometric functions of general angle, derivation of trigonometric identities and formulas, the solution of plane triangles, with practical applications, slide rule. Prerequisite: 3 units of college preparatory mathematics including solid geometry.
207. CALCULUS I *Credit 4 s.h.*
Prerequisite: 104, 106 or permission of the department. Differentiation of elementary functions and integration of polynomial functions, areas, curve tracing, maxima and minima, and conics in two dimensions.
208. CALCULUS II *Credit 4 s.h.*
Prerequisite: 207. Application of the definite integral to areas, volumes, arc length, surface area, and moments. Transcendental functions and their derivatives. Methods of integrating trigonometric functions, partial fractions, improper integrals.

Hyperbolic functions. Polar coordinates. Vectors in two dimensions.

303. CALCULUS III*Credit* 4 s.h.
Prerequisite: 208. Solid Analytic geometry and vectors in space. Partial differentiation. Application of multiple integrals to areas, volumes, and moments. Infinite series and applications.
- *304. INTRODUCTION TO MATHEMATICAL STATISTICS ..*Credit* 3 s.h.
Prerequisite: 208. Mathematical foundations of elementary statistical methods and their applications. An introduction to probability; discrete and continuous distributions; correlation, regression, and statistical independence; foundations of sampling theory; significance tests.
- *305. ELEMENTS OF MODERN GEOMETRY I*Credit* 3 s.h.
Prerequisite: 208. The elements of plane geometry, up to and including congruence, historical development, parallelism and similarity, area and volume, ruler and compass constructions, introduction to other geometries.
- *306. ELEMENTS OF MODERN GEOMETRY II*Credit* 3 s.h.
Prerequisite: 305. The role of the parallel postulate in Euclidean geometry, projective geometry, affine geometry, non-Euclidean geometries, pure analytic geometry.
- *401. INTRODUCTION TO MODERN ALGEBRA I*Credit* 3 s.h.
Prerequisite: 208. Introduction to the theory of integral domains, fields, rings, ideals, and groups.
- *402. INTRODUCTION TO MODERN ALGEBRA II*Credit* 3 s.h.
Prerequisite: 208. Introduction to the theory of finite dimensional vector spaces, elementary theory of matrices, linear transformations.
- *404. DIFFERENTIAL EQUATIONS*Credit* 3 s.h.
Prerequisite: 208. Solution of differential equations of elementary types; formation and integration of equations arising in applications; solution of equations of higher order and degree than the first; solution by series.
405. ADVANCED CALCULUS I*Credit* 3 s.h.
Prerequisite: 303. Limits, continuity, differentials, extensions of the law of the mean, partial and implicit differentiation, definite and line integrals, series.
406. ADVANCED CALCULUS II*Credit* 3 s.h.
Prerequisite: 405. Vectors and vector fields, multiple integrals, line and surface integrals, series, improper integrals, Fourier series.
416. SEMINAR*Credit* 2 s.h.
Prerequisite: Junior or Senior standing and consent of the department. Readings, papers, discussion of selected topics, individual projects. Provides an opportunity for small groups of advanced students to study topics in areas of special interest.

Applied Mathematics

(These courses do not count toward the mathematics major.)

205. MECHANICAL DRAWING *Credit 2 s.h.*
Prerequisite: Math 106. Projections and perspectives, special emphasis on the techniques of careful and exact drawing; blue-print reading.
206. MECHANICAL DRAWING AND DESCRIPTIVE
GEOMETRY *Credit 2 s.h.*
Prerequisite: Mathematics 205. A continuation of 205; advanced mechanical drawing for first six weeks, descriptive geometry for last twelve weeks.
- *414. MATHEMATICS FOR THE ELEMENTARY SCHOOL . . . *Credit 3 s.h.*
Number systems, basic ideas and structure of algebra, informal geometry, and applications. Topics will be selected as they have particular relevance for the elementary school teacher.
- *415. THE TEACHING OF MATHEMATICS *Credit 3 s.h.*
This course is a study of the principles and objectives of secondary mathematics, general and specific techniques, organization of content material and enrichment materials including the history of mathematics. Prerequisite: Twenty-one semester hours of mathematics or the consent of the student's advisor.

*These courses will be offered in alternate years. Courses planned for 1963-64 are: 103-104, 105-106, 205, 206, 207, 208, 303, 304, 305, 306, 404, 405, 406, 416.

THE NATURAL SCIENCES

Basic Science

- 201,202. PHYSICAL SCIENCE AND BIOLOGICAL SCIENCE . . . *Credit 8 s.h.*
These two semesters in basic science fulfill the science requirements for the non-science major; designed to give the individual some sense of participation in and responsibility for the developments of science and technology, and for the uses of science in society. Emphasis is placed on the scientific approach to the solution of problems, methods of measuring the properties of matter and energy, the design of experiments and the interpretation of data. Opportunities are provided for the student to examine more thoroughly specific scientific developments or aspects of the relationship of science and society. The first semester (201) is devoted to the study of physical science, including cosmogony, astronomy, chemistry and physics, with emphasis placed on the development of the principles and methods of physics and chemistry.
- The second semester (202) is devoted to the study of the basic principles of biological science. The cell as the unit of life and molecular processes involved in cellular activity are emphasized in the examination of the origin of life, organism, protoplasm, nutrition, metabolism, control mechanisms, reproduction, heredity and evolution.

Lectures and recitations: 3 hours; laboratory: 3 hours. Prerequisite: The necessary knowledge of mathematics and experimental techniques are developed in the course; however, it is desirable that the student shall have taken high school or college algebra, and high school biology and chemistry or physics.

321. **PHYSIOGRAPHY** *Credit 3 s.h.*
 A course in earth science designed primarily for students planning careers in the teaching of science in secondary schools. The processes of geomorphosis including the interaction of land, water and climate and their effects on biological communities are treated. Lecture: 3 hours; field trips. Prerequisite: Biology 101 and 102, or Basic Science 202 and permission of the department.

Biology

Three four-year degree programs are offered in the area of biology. The program for the Major in Biology, shown on page 80, is recommended for those who plan to attend graduate school or enter industry or government. The program for the Major in Biology for Premedical and Predental Students is shown on page 80. The third curriculum, Concentration in Biology for Secondary School Teachers, is presented on page 81. The requirements for the degree will be fulfilled on completion of a program as it is shown. Usually, four academic years are required to complete a degree program, however, those students who are well prepared in language, mathematics or science, and those who elect to attend summer school may proceed at a faster pace.

Courses in biology are included also in the three-year Predental and Premedical Program (page 85), the Medical Technology Program and the Nursing Program (page 86). The St. Andrews Bachelor of Science degree will be awarded to the student who completes these three-year programs at St. Andrews and the prescribed work at one of the cooperating institutions.

101. **ZOOLOGY** *Credit 4 s.h.*
 The fundamental principles of animal biology illustrated by a study of the morphology, physiology and the relationships of representative forms of animal life. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: High School biology, chemistry and algebra are recommended.
102. **BOTANY** *Credit 4 s.h.*
 A comprehensive study of the plant kingdom with emphasis on the morphology and physiology of higher plants. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: This course will normally follow Zoology 101; however, under special circumstances, permission may be granted for the courses to be taken in the reverse order.
201. **VERTEBRATE ANATOMY** *Credit 4 s.h.*
 The anatomy and comparative morphogenesis of chordate ani-

mals including laboratory dissection of representative vertebrates. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Biology 101 and 102 or Basic Science 202 with permission of Department.

202. PHYSIOLOGY *Credit 4 s.h.*
The physics and chemistry of energy changes, the transport of materials and control mechanisms in living organisms. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Biology 201; a knowledge of introductory college chemistry is also highly desirable.
301. MICROBIOLOGY *Credit 4 s.h.*
The major groups of microorganisms, including protozoa, algae, fungi, bacteria, rickettsiae and viruses considered in terms of their form, metabolism and parasitic implications. Lecture: 2 hours; Laboratory: 6 hours. Prerequisite: Biology 202.
302. GENETICS *Credit 4 s.h.*
The principles of heredity in plants and animals, studied in terms of genes and development, cytoplasmic inheritance and biochemical genetics. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Biology 301.
304. PLANT MORPHOLOGY *Credit 3 s.h.*
The anatomy and histology of vascular plants. The structural aspects of growth are studied in terms of the origin and development of cells and tissues. Lecture: 1 hour; Laboratory: 4 hours. Prerequisite: Biology 202.
310. SPECIAL PROBLEMS *Credit 1, 2, or 3 s.h.*
Special problems involving scientific literature and experimentation may be selected for investigation by permission of the Department. One hour each week may be devoted to discussion of topics in current literature, techniques of experimentation, or report writing. A term paper or experimental report will be required. The course is designed primarily for those students who have demonstrated interest and competence in individual work. The course may be taken in either or both semesters for credit. Conference: 1 hour; Literature and Laboratory: 3-9 hours. Prerequisite: Biology 302.
402. EMBRYOLOGY *Credit 4 s.h.*
A study of the differentiation of the vertebrate embryo, including laboratory examination of representative stages of the frog, chick and pig embryos. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Biology 302.
403. PARASITOLOGY *Credit 4 s.h.*
An introduction to parasites and parasitism with special emphasis on protozoa, helminths and arthropods. Lecture: 2 hours; Laboratory: 6 hours: Prerequisite: Biology 302.
404. FIELD BIOLOGY *Credit 4 s.h.*
The ecology of plant and animal life, principally in this area. The structure, life, growth and limitations of biological

communities are covered. Lecture: 2 hours; Laboratory: 6 hours. Prerequisite: Biology 302.

415. THE TEACHING OF HIGH SCHOOL SCIENCE *Credit 3 s.h.*
The course is designed to familiarize the student with the contents and objectives of modern high school science courses and desirable methods of presentation. Lectures and discussions: 2 hours; participation in laboratory courses: 6 hours. Prerequisite: Introductory courses in college biology, chemistry, and physics. For those students who are planning to fulfill the requirements of the North Carolina State Department of Public Instruction which will become effective in 1966.
- 431-432. INTRODUCTION TO RESEARCH *Credit 6 or 8 s.h.*
With permission of the Department and in consultation with an instructor, the student may select a topic for investigation which is of special interest to him and which is appropriate to the available library and experimental facilities. Normally the work will be initiated in September and completed in May of the academic year. In special cases permission may be granted for a portion of the work to be completed in a summer. Colloquium: 1 hour; Literature and laboratory work: 12-16 hours. Prerequisite: Special Problems 310.

Chemistry

Three four-year degree programs are offered in the area of chemistry. The curriculum for the Major in Chemistry, shown on page 81, is recommended to those who plan to attend graduate school or enter government or industry. The program for the Major in Chemistry for Premedicine and Predentistry is listed on page 82, and the Concentration in Chemistry for Secondary School Teachers is given on page 82. The requirements for the degree will be fulfilled on the completion of a program as it is shown. Usually, four academic years are required to complete a degree program; however, those students who are well prepared in mathematics, science, or language and those who elect to attend summer school may proceed at a faster pace.

Several chemistry courses are included in the three-year Premedical and Predental Program (page 85), Medical Technology and Physical Therapy Programs (page 85), and Preengineering Program (page 84). The Bachelor of Science degree will be awarded to the student who completes the three year curriculum at St. Andrews and the prescribed work at one of the cooperating institutions.

- 101-102. GENERAL CHEMISTRY *Credit 8 s.h.*
A study of chemical science with emphasis on chemical bonding and energy transfer. The properties of the elements and some of their compounds are examined in terms of the Periodic Table and atomic and molecular structure. Analytical chemistry, organic chemistry and nuclear science are briefly introduced. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: High school chemistry and algebra are recommended.

- 103-104. LABORATORY PROBLEMS *Credit 2 s.h.*
Practice in the solution of problems of stoichiometry, ionic equilibria and qualitative inorganic analysis. The course provides opportunity for advanced students to study problems of special interest and is useful to those students who desire to improve their background before proceeding to Quantitative Analysis and Physical Chemistry. The course may be taken either or both semesters for credit. Admittance by permission of the instructor. Lecture, conference and Laboratory: 3 hours. Prerequisite: Chemistry 101 which, in special cases, may be taken concurrently.
201. QUANTITATIVE ANALYSIS *Credit 4 s.h.*
The theory and techniques of inorganic volumetric and gravimetric analysis. The work is concentrated upon acid-base equilibria, precipitation processes, oxidation-reduction reactions, experimental technique, and methods of evaluation of analytical measurement. Lecture: 2 hours; Laboratory: 6 hours, Prerequisite: Chemistry 102 and Math. 104 or 106.
302. QUALITATIVE ANALYSIS *Credit 4 s.h.*
The systematic separation and identification of metallic ions and acid radicals by use of semi-micro techniques. Special attention is given to ionic equilibria. Lecture: 2 hours; Laboratory: 6 hours. Prerequisite: Chemistry 102.
- 303-304. ORGANIC CHEMISTRY *Credit 8 s.h.*
A study of the preparation and the characteristic properties of the principal classes of carbon compounds. The basic principles of bonding, structure and reaction mechanism are considered. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Chemistry 102.
310. SPECIAL PROBLEMS *Credit 1, 2 or 3 s.h.*
Special problems involving scientific literature and experimentation may be selected for investigation by permission of the Department. One hour each week may be devoted to discussion of topics in current literature, techniques of experimentation, or report writing. A term paper or experimental report shall be required. The course is designed primarily for those students who have demonstrated interest and competence in individual work. (The course may be taken in either or both semesters for credit.) Conference. 1 hour; Literature or Laboratory: 3-9 hours. Prerequisite: Chemistry 201.
- 402-403. PHYSICAL CHEMISTRY *Credit 8 s.h.*
Fundamental principles of physical chemistry. In the first semester emphasis is placed upon the properties of gases, liquids, solutions and energy transfer. In the second semester the subjects of thermodynamics, kinetics, atomic structure and statistical mechanics are considered. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Chemistry 201, Calculus 208 and Physics 202. In special cases Physics 202 may be taken concurrently.

404. ADVANCED ANALYSIS AND INSTRUMENTATION . . . *Credit 4 s.h.*
Laboratory instruction in advanced analytical measurements. Principles of laboratory measurement and special apparatus for analysis and control of chemical, physical and biochemical processes are treated. Lecture: 2 hours; Laboratory: 6 hours. Prerequisite: Quantitative Analysis 201 and Physical Chemistry 402.
415. THE TEACHING OF HIGH SCHOOL SCIENCE . . . *Credit 3 s.h.*
The course is designed to familiarize the student with the contents and objectives of modern high school science courses and desirable methods of presentation. Lectures and discussions: 2 hours; participation in laboratory courses: 6 hours. Prerequisite: Introductory courses in college biology, chemistry, and physics. For those students who are planning to fulfill the requirements of the North Carolina State Department of Public Instruction which will become effective in 1966.
- 431-432. INTRODUCTION TO RESEARCH *Credit 6 or 8 s.h.*
With permission of the Department and in consultation with an instructor, the student may select a topic for investigation which is of special interest to him and which is appropriate to the available library and experimental facilities. Normally the work will be initiated in September and completed in May of the academic year. In special cases permission may be granted for a portion of the work to be completed in a summer. Colloquium: 1 hour; Laboratory: 12-16 hours. Prerequisite: Special Problems 310.
441. BIOCHEMISTRY *Credit 4 s.h.*
Chemistry of cellular metabolism. The nature of enzyme action, intermediary metabolism, and the properties and structure of biological macromolecules are treated. Recommended for biology and chemistry majors. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Genetics 302 and Quantitative Analysis 201; or Physical Chemistry 402 and Biology 102.

Physics

- 201-202. GENERAL PHYSICS *Credit 8 s.h.*
Basic concepts in the classical fields of mechanics, heat, sound, light, electricity and magnetism, including introduction to modern physics. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Calculus 207 and 208; in special cases Calculus 208 may be taken concurrently.
- 203-204. LABORATORY PROBLEMS *Credit 2 s.h.*
Selected problems in General Physics are studied intensively. The course provides opportunity to study problems of special interest, and is useful to those who wish to improve their background before proceeding further in physics and physical chemistry. Either or both semesters can be taken for credit. Lecture, Laboratory or conference: 3 hours. Prerequisite: Physics 201 which, in special cases, may be taken concurrently.

311. **INTERMEDIATE PHYSICS I***Credit 4 s.h.*
An advanced study of mechanics, heat and the properties of materials. Kinematics, particle mechanics, vibratory systems, rigid body dynamics, energy transfer and the microscopic properties of materials are considered. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Physics 202 and Calculus 303.
312. **INTERMEDIATE PHYSICS II***Credit 4 s.h.*
An advanced study of electricity, magnetism, and wave mechanics. Vector analysis, electrostatics, magnetism, electromagnetic induction, electro-magnetic waves and the motion of charged particles in electromagnetic fields are treated. Lecture: 3 hours; Laboratory: 3 hours. Prerequisite: Intermediate Physics 311.

CONSERVATORY OF MUSIC

The Conservatory of Music offers the following degrees: Bachelor of Music with a major in Piano, Organ, Voice, or Orchestral Instruments; Bachelor of Music with a major in Church Music; Bachelor of Music with a major in Music Education; and Bachelor of Arts with a major in Music. (The specific requirements for each of these degrees is found on pages 86 to 89.)

Credit in Applied Music is based on the total hours of practice per week. One semester hour credit is granted for six hours of practice per week, plus one hour or more of instruction per week as necessary. Credit is not earned unless final examinations are passed. Applied Music examinations are conducted by a faculty committee at the end of each semester. Non-music majors may take applied music without credit. However, credit for applied music will be granted to the non-music major if an academic course in the field of Music Theory or Music History is being taken.

All students taking applied music for credit must obtain permission from the instructor or the Chairman of the Division for all public performance in music.

Requirements for entrance and graduation are in conformity with the published regulations of the National Association of Schools of Music of which the Conservatory is an institutional member.

Music Theory

- 101-102. **THEORY OF MUSIC***Credit 8 s.h.*
A combined course including eartraining and sight-singing, diction, written and keyboard harmony. Five hours a week.
- 201-202. **ADVANCED THEORY***Credit 8 s.h.*
An advanced study of the work begun in 101-102. Five hours a week.
- 301-302. **COUNTERPOINT***Credit 6 s.h.*
A practical study of the various contrapuntal methods and modes with emphasis on the sixteenth century style and an introduction to the eighteenth century counterpoint.

- 303-304. **FORM ANALYSIS** *Credit 4 s.h.*
A study of musical forms beginning with the phrase and continuing through the major forms.
305. **CONDUCTING** *Credit 2 s.h.*
Instrumental and choral conducting and technique of the baton, with emphasis on rehearsal techniques for both public school and church ensemble groups.
401. **ORCHESTRATION** *Credit 2 s.h.*
A study of the instruments of the band and orchestra, including the orchestration of simple music with emphasis on the demands and capabilities of high school instrumental groups.
402. **SERVICE PLAYING** *Credit 3 s.h.*
The organization and performance of the church service from the organist's point of view. Special attention is given to hymn playing, modulation, simple improvisation, the accompaniment of anthems and sacred solos, and the planning of the service as a complete unit. Prerequisite: Junior or Senior standing.

History and Literature

- 111-112. **INTRODUCTION TO MUSIC** *Credit 2 s.h.*
A course for first year music students to develop a comprehensive understanding of the art of music and intelligent listening to music.
- 311-312. **HISTORY OF MUSIC** *Credit 6 s.h.*
A general survey of music from the Greeks to modern times. Lectures, reading, discussions, and recordings.
314. **MUSIC APPRECIATION** *Credit 3 s.h.*
A course designed for the non-music major and candidates for the degree in elementary education.
411. **SONG LITERATURE** *Credit 2 s.h.*
A survey of the development of song literature from the Renaissance-Baroque to the modern and contemporary period with representative works and composers studied. Emphasis is placed on acquiring a broad knowledge of vocal repertoire for all voices. Program building, song analysis and classification are studied.
412. **HISTORY AND LITERATURE OF WOODWIND INSTRUMENTS** *Credit 2 s.h.*
The evolution of woodwind music and techniques from the Baroque period to the present time.
- 413-414. **CHURCH MUSIC** *Credit 6 s.h.*
A historical study of traditional and modern practices in representative forms of worship with emphasis on the relationship of music to the liturgy of the service.
415. **HYMNOLOGY** *Credit 3 s.h.*
A survey of the hymns of the Christian Church with their music, including modern hymnody from Luther, the Geneva

Psalters, Psalmody in Scotland and England and the Wesleyan Movement to contemporary hymnody. Evaluation and criticism of hymns from the musical, literary, and religious points of view.

Pedagogy and Education

- 421-422. PIANO PEDAGOGY *Credit 4 s.h.*
A study of methods and materials of pianoforte literature. Lecture 1 hour, practice teaching 2 hours.
423. VOICE PEDAGOGY *Credit 2 s.h.*
A study of methods and materials used in teaching vocal technique, with practical experience in the application of methods in small voice classes of students not studying voice privately. Open to junior and senior voice majors, public school music majors, and church music majors whose applied music emphasis is in voice.
431. MUSIC IN THE ELEMENTARY SCHOOL *Credit 4 s.h.*
A course dealing with the aims and objectives of music education material for use in elementary grades.
432. MUSIC IN THE HIGH SCHOOL *Credit 2 s.h.*
A study of music in the junior and senior high school. Attention is given to the adolescent voice and to general supervision of the music program.
433. MUSIC FOR CLASSROOM TEACHING *Credit 6 s.h.*
A study of methods of teaching and developing music in the grade school, designed for Elementary Education majors, in accordance with the requirements of the State of North Carolina. The candidate is cautioned to examine carefully the certification requirements of the state in which he wishes to teach in order to plan his course of study carefully.
435. OBSERVATION AND STUDENT TEACHING *Credit 6 s.h.*
Observation and practice teaching in the elementary grades and junior and senior high school in consultation with the instructor.

Methods

325. STRINGED INSTRUMENTS *Credit 2 s.h.*
326. WOODWIND INSTRUMENTS *Credit 2 s.h.*
327. BRASS INSTRUMENTS *Credit 2 s.h.*

These three courses are required of Music Education majors. Class instruction is offered in various instruments through training in technique, proper tone production, phrasing, interpretation, transposition, and solos of varying difficulty. Materials will be chosen on the basis of the student's ability and progress. These courses are primarily designed to give Music Education majors an elementary working knowledge of the instruments of the orchestra and band. Two hours a week for three semesters, one each in strings, woodwinds, and brass.

420. MATERIALS AND METHODS FOR CHURCH CHOIR *Credit 3 s.h.*
The organization and direction of the multiple choir program in the local church. Anthems, responses, and chants will be evaluated. Emphasis on rehearsal techniques.
425. ORGAN PEDAGOGY *Credit 2 s.h.*
Required of all Organ and Church Music majors. A general survey of the history, construction, and literature of the organ. Special emphasis is placed on registration, modern teaching materials, and the organ music of Bach. Prerequisite: Junior or Senior standing.

Ensemble

All ensembles are open to non-music majors. The choral organizations and the Band make an annual concert tour and also give a series of concerts for the college and the community. Participation in all concerts and tours is expected of all students enrolled in these organizations.

051. COLLEGE CHOIR *Credit 1 s.h.*
052. WOMEN'S CHORUS *Credit 1 s.h.*
053. BAND *Credit 1 s.h.*
054. ORCHESTRA *Credit 1 s.h.*
055. VOCAL ENSEMBLE *Credit 1 s.h.*
056. BRASS CHOIR *Credit 1 s.h.*
057. WOODWIND ENSEMBLE *Credit 1 s.h.*

Applied Music

Applied music credit varies with each program. The credit granted in each degree program is given on pages 86 to 89. All applied music courses for freshmen are numbered at the 100 level, for sophomores at the 200 level, for juniors at the 300 level, and for seniors at the 400 level.

- ..11, ..12. PIANO *Credit as stated*
..21, ..22. PIANO (secondary)
..31, ..32. ORGAN
..41, ..42. WOODWIND
..51, ..52. BRASS
..61, ..62. STRING
..71, ..72. PERCUSSION
..81, ..82. VOICE
100. FULL RECITAL *Credit 2 s.h.*
200. HALF RECITAL *Credit 1 s.h.*

(Descriptions of Applied Music requirements for each year may be obtained from the office of the Music Conservatory.)

PHYSICAL EDUCATION AND HEALTH

The program of Physical and Health Education is five-fold in purpose. The first is that of physical activity and includes physical fitness. This is a service program designed to promote the physical well-being of Freshman and Sophomore students. It includes a variety of

activities designed to promote appreciation of and interest in planned leisure-time programs as well as to provide the opportunity to develop fundamental motor skills. This program is required of Freshman and Sophomore students for graduation. The other areas include the Intramural Sports Program, the Intercollegiate Program, the Professional Teacher Training Program, and the Health and Hygiene Program.

A thorough physical examination is required of each student before entrance. On the basis of this examination advice is given each individual as to the kind and amount of exercise needed.

A physical fitness classification test is given during the first weeks of school to determine the level of fitness of each student. The results of this test help determine the activities offered during the fall semester.

A physical education uniform is required of all students. This uniform can be purchased in the college book store. Men are required to purchase one pair of shorts, one "T" shirt and one complete sweat suit. Women are required to purchase one pair of shorts, one blouse, and one sweat shirt.

The Required Physical Education Program

Every student in the college who is a candidate for a degree must pass 4 semester hours of Physical Education. A program of physical fitness is offered at the beginning of 101-102, 201-202 and continued throughout the entire course. The instructor will determine the amount of physical fitness exercises in light of the ability of the class.

Requirements for Students excused for medical reasons

All students excused from physical education for medical reasons are required to take P. E. 202: Health Education (Credit 3), and also P. E. 203: Sports Appreciation (Credit 1). These courses must be taken during the first three years.

- 101-102M. TEAM GAMES FOR MENCredit 2 s.h.
A program designed to develop basic skills in team games such as touch football, speedball, soccer, softball, volleyball, basketball, tumbling and gymnastics. In addition to actual participation in these sports, consideration is given to the study of the history and rules of each. Required of Freshmen men.
- 101-102W. TEAM GAMES FOR WOMENCredit 2 s.h.
Development of skills and participation in speedball, volleyball, basketball, softball, soccer, field hockey, basic rhythmic, and body mechanics. Required of all Freshmen women.
- 201-202. COEDUCATIONAL PHYSICAL EDUCATIONCredit 2 s.h.
A program designed to develop an appreciation of recreational types of activities. Only activities with high carry over values are included. The course includes volleyball, badminton, bowling, aerial darts, deck tennis, shuffleboard, horseshoes, table tennis, archery, tennis, bait and fly casting and spin casting. Some rhythmic training and appreciation through folk and square dancing is also included. Required of all sophomores.

203. SPORTS APPRECIATION*Credit 1 s.h.*
 This course is designed to develop an understanding and appreciation of sports and activities. A study of the history, background and rules of each sport. Football, basketball, baseball, tennis, golf, track and field, soccer, swimming, volleyball, wrestling and others.
- 301-302. ADVANCED TRAINING IN SPORTS*Credit 2 s.h.*
 This course is designed for advanced pupils who have basic skills in the following activities: Spin or fly casting, bowling, golf, tennis, archery and the American Folk Dance series.

Theory Courses

203. INTRODUCTION TO PHYSICAL AND
 HEALTH EDUCATION*Credit 3 s.h.*
 A presentation of the basic facts and beliefs concerning the nature and scope of physical and health education. Discussions of such matters as the meaning of physical education and of health education, historical developments and the relationship of physical and health education to allied fields, and the implications basic to the field of endeavor are fundamental guides in this course.
204. HEALTH EDUCATION*Credit 3 s.h.*
 A study of health facts, basic attitudes, and health practices fundamental to wholesome living. Personal and community hygiene are emphasized. The areas of study and discussion which form the basis for this course are truths and part-truths, fads, and propaganda which are day-to-day concerns of college students. Recommended for all students.
303. OFFICIATING IN MAJOR AND MINOR SPORTS ..*Credit 3 s.h.*
 A study of the rules and mechanics of officiating in football and basketball with secondary emphasis placed on those minor sports usually included in the secondary school program. Actual practice in officiating certain intramural games and varsity team scrimmage aids each student to gain a better knowledge and appreciation of the rules through application.
304. FIRST AID AND SAFETY EDUCATION*Credit 3 s.h.*
 A course concerning first aid methods for the home, school, and community and dealing with some of the problems of safe driving and safe living. Successful completion of this course qualifies the student for the American Red Cross First Aid Certificate. Recommended for all students.
305. COMMUNITY RECREATION AND INTRAMURAL
 ACTIVITIES*Credit 3 s.h.*
 A course dealing with the problems of organization and administration of a program of activities for schools, colleges, churches, and community recreational programs. It includes practical work in the intramural program on our

campus. Open to all students: recommended especially to students in education.

307. HISTORY AND PRINCIPLES OF PHYSICAL
EDUCATION*Credit 3 s.h.*
An orientation course for students working in physical education, divided into two parts. The first part deals with the history of physical education; the second part deals primarily with the basic principles of modern physical education, stressing aims and objectives with special reference to the value of physical education in the current economic and social life of the nation. Special consideration is given professional leadership and its prospects.
315. METHODS AND MATERIALS IN PHYSICAL
EDUCATION*Credit 3 s.h.*
A study of the methods and content of the physical education program according to age groups, capacities, needs, interests, and developmental level of the individuals. Consideration is given to adapting the program to the materials and facilities available.
401. SCHOOL HEALTH EDUCATION*Credit 3 s.h.*
A study of the principles and policies underlying the organization and administration of health services, healthful school living, and health instructional programs. Methods, materials, and integrative features of school health education programs are presented. Required for students preparing to teach in elementary grades and for teachers of health or physical education in secondary schools.
402. CURRICULUM IN PHYSICAL AND HEALTH
EDUCATION FOR PUBLIC SCHOOLS*Credit 3 s.h.*
A study of the principles underlying the making and administering of physical and health curricula in elementary and secondary schools, with actual participation in the games and rhythms of various age groups, and Laboratory work in Physical Education activity classes on our campus.
- 403 ORGANIZATION AND ADMINISTRATION OF
HEALTH AND PHYSICAL EDUCATION*Credit 3 s.h.*
A course dealing with the policies and problems of organization and administration of Health and Physical Education programs in schools.

PROGRAM OF STUDY

In this section of the catalog, a number of specific academic programs are described in detail, indicating the courses to be taken during each of the four years. This should prove helpful both to students interested in such information and to faculty advisers in planning the work of their advisees from year to year.

MAJOR IN BIBLE AND CHRISTIAN EDUCATION

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
English 101-102	6	Basic Science 201, 202.....	8
Mathematics 103-104	6	Bible 303, 304.....	6
Foreign Language 201-202	6	Electives	6
Physical Education 101-102.....	2	Physical Education	2
	<hr/>		<hr/>
	32		34
 <i>Junior</i>	 <i>S. H.</i>	 <i>Senior</i>	 <i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Bible 301-302	6	Bible 401-402	6
Christian Education 303, 304....	6	Christian Education 405, 406...	6
Electives	12	Electives	12
	<hr/>		<hr/>
	30		30

Suggested Electives: Psychology 201; Sociology 201, 311; Philosophy 301-302, 303, 304; English 201, 202; History 201-202; Bible 403, 404; Christian Education 407.

MAJOR IN BIBLE

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
English 101-102	6	Basic Science 201, 202.....	8
Mathematics 103-104	6	Bible 303, 304.....	6
Foreign Language 201-202	6	Electives	6
Physical Education	2	Physical Education	2
	<hr/>		<hr/>
	32		34
 <i>Junior</i>	 <i>S. H.</i>	 <i>Senior</i>	 <i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Bible 301-302	6	Bible 401-402	6
Philosophy 301-302	6	Bible 403, 404.....	6
Electives	12	Electives	12
	<hr/>		<hr/>
	30		30

Suggested Electives: Psychology 201; Sociology 201, 311; Philosophy 303, 304; English 201, 202; History 201, 202.

MAJOR IN RELIGION AND PHILOSOPHY

Regular requirements for the B.A. degree including the following:

15 semester hours in *Bible* (any 2 courses in the 300 level plus any 3 courses in the 400 level).

15 semester hours in *Philosophy* above the 200 level

History of Philosophy (6 hrs.) is required.

3 courses to be selected by preference.

Strongly Recommended:

(French and German are often required of the student planning graduate work past the B.A. and B.D. degree.)

Sociology 308—General Sociology

309 — Contemporary Social Problems

History 307—History of the South

407-408 — The World in the 20th Century.

HUMAN RELATIONS MAJOR

This major is designed to provide a satisfactory foundation for service in various fields where an emphasis on Human Relations is considered an asset. It will also meet the need of students who want a recognized program of study primarily in Psychology but do not wish nor intend to pursue graduate study. In various areas such as Psychology, Special Education, Business, and Sociology, persons are employable at the technical and semi-professional levels for which this program would prepare them.

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
English 101-102	6	Foreign Language	6
Foreign Language 201-202.....	6	Sociology 201 (General).....	3
Mathematics 103-104	6	Psychology 201 (General).....	3
Physical Education	2	Basic Science 201, 202.....	8
—	—	Physical Education	2
	32	—	—
			34
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Psychology 301. Mental Hygiene	3	Psychology 411. Seminar.....	3
Sociology 309. Contemporary		Psychology 401. Personality....	3
Social Problems	3	Education 312. Guidance and	
Sociology 310. Introduction to		Counseling	3
Social Work or		Sociology 403. American Social	
Sociology 311. Christian Marriage		Structure	3
and Family Life.....	3	Sociology 404. The Community	3
Psychology 320. Social		*Electives	9
Psychology	3	—	—
*Electives	12		30
—	—		
	30		

*Should be chosen with the approval of the major advisor.

BUSINESS AND ECONOMICS

The Department of Business and Economics offers the Bachelor of Science degree with majors in Business Administration and in Business Education.

A major in Business Administration should choose one of the following suggested programs:

ACCOUNTING EMPHASIS**

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Foreign Language 201-202.....	6	Basic Science 201, 202.....	8
English 101-102	6	Economics 207-208	6
Mathematics 103-104	6	Business 209-210. Accounting ...	6
Physical Education 111-112.....	2	Physical Education	2
	<hr/>		<hr/>
	32		34
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Business 305. Communications .	3	Business 404. Statistics	3
Business 308. Business Finance..	3	Business 407. Office Management	3
Business 309-310. Accounting....	6	Business 406. Money and Banking	3
Business 312. Marketing	3	Business 403. Cost Accounting .	3
Business 315, 316. Law	6	Business 405. Auditing Accounting	3
Business 402. Income Tax		Business 406. Consolidations.....	3
Accounting	3	Business 414. Seminar	3
	<hr/>	Electives	3
	30		<hr/>
			30

MANAGEMENT EMPHASIS

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Foreign Language 201-202.....	6	Economics 207-208	6
English 101-102	6	Business 209-210. Accounting ...	6
Mathematics 103-104	6	Basic Science 201, 202.....	8
Physical Education 111-112.....	2	Physical Education	2
	<hr/>		<hr/>
	32		34
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Economics 305. Labor Problems..	3	Business 404. Statistics	3
Economics 314. Consumer Problems	3	Business 407. Office Management	3
Business 305. Communications .	3	Business 408. Personnel Management	3
Business 315 or 316. Law	3	Business 414. Seminar	3
Business 308. Business Finance..	3	*Electives	12
Business 312. Marketing	3		<hr/>
Psychology 201	3		30
Electives	3		
	<hr/>		
	30		

*Should be chosen with the approval of the major advisor.

**A student electing this program will meet the minimum course requirements for the CPA examination.

MARKETING EMPHASIS

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Language	6	Economics 207-208	6
Foreign Language 201-202	6	Business 209-210. Accounting...	6
English 101-102	6	Basic Science 201, 202.....	8
Mathematics 103-104	6	Physical Education	2
Physical Education 111-112.....	2		—
	32		34
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Business 305. Communications..	3	Business 318. Advertising.....	3
Business 308. Business Finance	3	Business 404. Statistics.....	3
Business 312. Marketing	3	Business 410. Salesmanship and	
Business 313. Retailing.....	3	Sales Promotion	3
Business 315 or 316. Law.....	3	Business 414. Seminar	3
Economics 314. Consumer		*Electives	12
Problems	3		—
Psychology 201	3		30
*Electives	3		
	30		

Business Administration majors are urged to learn to use the type-writer and other office machines efficiently. It will be to their advantage to do so during the freshman or sophomore year if possible.

Students who entered St. Andrews in September, 1961 and 1962, are expected to comply with these programs.

SECRETARIAL ADMINISTRATION EMPHASIS

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Foreign Language 201-202.....	6	Basic Science 201, 202.....	8
English 101-102	6	Business 201-202. Shorthand....	6
Mathematics 103-104	6	Business 103-104 or 104-204.	
Physical Education 111-112.....	2	Typewriting	4
	—	Business 203. Office Practice....	3
	32	Physical Education 121-122.....	2
			—
			35
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Economics 207-208	6	Business 407. Office Management	3
Business 209-210. Accounting...	6	Business 408. Personnel	
Business 301-302. Shorthand....	6	Management	3
Business 304. Secretarial Practice	3	Business 305. Communications .	3
Elective	3	Economics 314. Consumer	
	—	Problems	3
	30	Business 315 or 316. Law.....	3
		Business 416. Work Experience..	3
		Electives	6
			—
			30

*Choices must be approved by departmental advisor.

BUSINESS TEACHER EDUCATION

St. Andrews is a member of the National Association for Business Teacher Education. A major in Business Education should choose one of the following programs:

COMPREHENSIVE CERTIFICATE

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Foreign Language 201-202.....	6	Basic Science 201, 202.....	8
English 101-102	6	Business 201-202. Shorthand....	6
Mathematics 103-104	6	Business 103-104 or 104-204.	
Physical Education 111-112.....	2	Typewriting	4
—		Business 203. Office Practice....	3
32		Physical Education	2
		—	
		35	

<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Economics 207-208	6	Business 304. Secretarial Practice	3
Business 209-210. Accounting...	6	Business 312. Marketing	3
Business 301. Shorthand and		Economics 314. Consumer	
Transcription	3	Problems	3
Business 305. Communications .	3	Education 308. Psychology of	
Education 301. Introduction to		Adolescence	3
Teaching	3	Business 407. Office Management	3
Psychology 305. Educational		Education 407. Principles of	
Psychology	3	Secondary Education	3
—		Education 415. Methods of	
30		Teaching Business Subjects...	3
		Student Teaching	6
		—	
		33	

BASIC BUSINESS CERTIFICATE

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104	6	Basic Science 201, 202.....	8
English 101-102	6	Economics 207-208	6
Foreign Language 201-202.....	6	Business 103-104 or 104-204.	
Physical Education	2	Typewriting	4
—		—	
32		30	

<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Business 209-210. Accounting...	6	Economics 314. Consumer	
Business 305. Communications .	3	Problems	3
Business 312. Marketing	3	Business 315. Law.....	3
Business 313. Retailing	3	Business 407. Office Management	3
Education 301. Introduction to		Education 308. Psychology of	
Teaching	3	Adolescence	3
Psychology 305. Educational		Education 407. Principles of	
Psychology	3	Secondary Education	3
Elective	3	Education 415. Methods of	
—		Teaching Business Subjects...	3
30		Student Teaching	6
		—	
		30	

NATURAL SCIENCE AND MATHEMATICS

The Division of Natural Science offers the Bachelor of Arts degree with majors in Biology, Chemistry and Mathematics, and for those who wish to be certified as teachers with concentration in Biological Science, Chemical Science and in Mathematics. Special programs are offered for Premedical and Predental students which lead to the Bachelor of Arts degree with majors in Biology and Chemistry. The Bachelor of Science degree is given to students who take the three-year cooperative Premedical or Predental program, the Medical Technology program, the Nursing program or the Pre-Engineering program at St. Andrews and complete their work at one of the cooperating institutions.

BACHELOR OF ARTS DEGREE WITH MAJOR IN BIOLOGY

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207-208	8
English 101-102	6	Foreign Language 201-202.....	6
Zoology 101, Botany 102.....	8	Vertebrate Anatomy 201.....	4
Physical Education 111-112.....	2	General Physiology 202.....	4
—	—	Physical Education 121-122**... 2	—
	34		36
 <i>Junior</i>	 <i>S. H.</i>	 <i>Senior</i>	 <i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
General Chemistry 101-102.....	8	Quantitative Analysis 201, or	
Microbiology 301, Genetics 302..	8	Advanced Biology	4
General Physics 201-202.....	8	Organic Chemistry 303-304.....	8
—	—	Introduction to Research 431-432	
	30	or Advanced Biology.....	6 to 8
		Elective	3 to 4
			—
			30

B.A. DEGREE WITH MAJOR IN BIOLOGY For Premedical and Predental Students

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207-208.....	8
English 101-102	6	Foreign Language 201-202.....	6
Zoology 101, Botany 102.....	8	Vertebrate Anatomy 201.....	4
Physical Education 111-112.....	2	Physiology 202	4
—	—	Physical Education 121-122**... 2	—
	34		36

* Freshmen with four or more high school credits in mathematics may apply for admission to Calculus I and the elimination of the requirement of Mathematics 103 and 104.

** Physical Education 121 and 122 may be taken in the junior year.

<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
General Chemistry 101-102.....	8	Organic Chemistry 303-304.....	8
General Physics 201-202.....	8	Quantitative Analysis 201.....	4
Microbiology 301	4	Physical Chemistry 402	4
Genetics 302	4	Introduction to Research 431-432	
	<hr/> 30	or Advanced Biology.....	6 to 8
			<hr/> 28-30

This program fulfills the recommendations of the American Association of Medical Colleges for premedical training.

B.A. DEGREE WITH CONCENTRATION IN BIOLOGICAL SCIENCE

For Secondary School Teachers

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207-208.....	8
English 102.....	6	Foreign Language 201-202.....	6
Zoology 101, Botany 102.....	8	Vertebrate Anatomy 201.....	4
Physical Education 111-112.....	2	Physiology 202	4
	<hr/> 34	Physical Education 121-122**...	2
			<hr/> 36

<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
General Chemistry 101-102.....	8	Advanced Biology (400 level)..	4
General Physics 201-202.....	8	Professional Education Courses..	12
Microbiology 301	4	Student Teaching	6
Genetics 302	4		<hr/> 28
	<hr/> 30		

B.A. DEGREE WITH MAJOR IN CHEMISTRY

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207-208.....	8
General Chemistry 101-102.....	8	Organic Chemistry 303-304.....	8
English 101-102	6	Foreign Language 201-202.....	6
Physical Education 111-112.....	2	Physical Education 121-122**...	2
	<hr/> 34		<hr/> 36

<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
General Physics 201-202.....	8	Physical Chemistry 403.....	4
Calculus III, 303.....	4	Advanced Chemistry (400 level)	4
Quantitative Analysis 201.....	4	Electives	6-8
Physical Chemistry 402	4	Introduction to Research 431-432	
Diff. Equations 404 or Adv.		or Advanced Chemistry.....	6-8
Calculus 405	3		<hr/> 26-30
	<hr/> 29		

* Freshmen entering with four or more high school credits in mathematics may apply for admission to Calculus I and the elimination of the requirement of Mathematics 103 and 104.

** Physical Education 121 and 122 may be taken in the junior year.

B.A. DEGREE WITH MAJOR IN CHEMISTRY

Premedical or Predental**

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207-208.....	8
English 101-102	6	Foreign Language 201-202.....	6
Chemistry 101-102	8	Organic Chemistry 303-304.....	8
Physical Education 111-112.....	2	Physical Education 121-122**...	2
	<hr/>		<hr/>
	34		36
 <i>Junior</i>	 <i>S. H.</i>	 <i>Senior</i>	 <i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
General Physics 201-202.....	8	Zoology 101, Botany 102.....	8
Calculus III, 303.....	4	Introduction to Research 431-432	
Quantitative Analysis 201.....	4	or Advanced Chemistry.....	6-8
Physical Chemistry 402.....	4	Physical Chemistry 403	4
Adv. Calculus 405 or Diff.		Zoology or Advanced Chemistry..	4
Equations 404	3		<hr/>
	<hr/>		28-30
	29		

This program fulfills the recommendations of the Association of American Medical Colleges for premedical training. Students who are following the program recommended by the Committee on Professional Training of the American Chemical Society should select German as the foreign language and elect an additional 400—course in organic chemistry.

B.A. DEGREE WITH CONCENTRATION IN CHEMICAL SCIENCE

For Secondary School Teachers

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207-208.....	8
General Chemistry 101-102.....	8	Organic Chemistry 303-304.....	8
English 101-102	6	Foreign Language 201-202.....	6
Physical Education	2	Physical Education 121-122**...	2
	<hr/>		<hr/>
	34		36
 <i>Junior</i>	 <i>S. H.</i>	 <i>Senior</i>	 <i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Zoology 101, Botany 102.....	8	Physical Chemistry 403.....	4
General Physics 201-202.....	8	Professional Education Courses..	12
Quantitative Analysis 201.....	4	Student Teaching	6
Physical Chemistry 402.....	4		<hr/>
	<hr/>		28
	30		

This program fulfills the requirements of the North Carolina Department of Public Instruction which become effective in 1966 for Chemistry teachers in secondary schools.

* Freshmen entering with four or more credits in mathematics may apply for admission to Calculus I and the elimination of the requirement of Mathematics 103 and 104.

** Physical Education 121 and 122 may be taken in the junior year.

B.A. DEGREE MAJOR IN MATHEMATICS

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207-208.....	8
English 101-102	6	Basic Science 201, 202	8
Foreign Language 201-202.....	6	Physical Education	2
Physical Education 111-112.....	2		—
	—		30
	32		.
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Calculus III, 303.....	4	Advanced Calculus or Differential Equations	3
Modern Algebra or Modern Geometry	6	Electives, Mathematics, Science, Philosophy or Foreign Language	20
General Chemistry or Physics....	8		—
Elective, Mathematics or Foreign Language	6		29
Advanced Calculus or Differential Equations	3		
	—		
	33		

B.A. DEGREE CONCENTRATION IN MATHEMATICS For Secondary School Teachers

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 201-202	12
Mathematics 103-104*.....	6	Calculus I & II, 207, 208.....	8
English 101-102	6	Modern Geometry 305-306.....	6
Foreign Language 201-202.....	6	Basic Science 201, 202.....	8
Physical Education 111-112.....	2	Physical Education 121-122**...	2
	—		—
	32		36
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	Christianity and Culture 401-402	6
Modern Algebra 401-402	6	Elective, Mathematics or Science 3-4	
General Chemistry or Physics...	8	Professional Education Courses..	9
Calculus III, 303	4	Student Teaching	6
Advanced Calculus 405 or Differential Equations 404....	3		—
Elective, Mathematics or Education	3		24-25
	—		
	30		

This program fulfills the requirements of the North Carolina Department of Public Instruction which will become effective in 1966 for teachers of mathematics in secondary schools.

* Freshmen entering with four or more credits in high school mathematics may apply for admission to Calculus I and the elimination of the requirement of Mathematics 103-104.

** Physical Education 121 and 122 may be taken in the junior year.

THREE-YEAR COOPERATIVE PROGRAMS WITH OTHER INSTITUTIONS

In the following pages are listed three-year programs for premedical and predental training, medical technology, science-engineering and nursing. St. Andrews offers the Bachelor of Science degree to the student who completes the three-year program as shown here and the prescribed program at the cooperating institution. A possible advantage of these three-year programs over the four-year degree curricula lies in the fact that the student who takes the three-year program and completes his professional training, for example in medicine or engineering, will have gained the elements of a liberal education and an introduction to his field of special interest and, at the same time, he will have reduced his total schooling by approximately one year.

It should be mentioned, however, that many schools of medicine, dentistry, medical technology, nursing and engineering have expressed preference for graduates of the four-year curricula. Thus, the four-year premedical and predental B.A. degree programs with a Major in Chemistry or in Biology are recommended to those who plan to take professional training in dentistry, medicine, medical technology and nursing. Similarly, the four-year B.A. degree program with a Major in Chemistry is recommended to those who plan careers in engineering.

THREE-YEAR COOPERATIVE SCIENCE-ENGINEERING PROGRAM WITH NORTH CAROLINA STATE COLLEGE

<i>Freshman</i>	<i>S. H.</i>	<i>Junior</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 301-302	6
Mathematics 103-104*	6	Foreign Language 201-202**	6
General Chemistry 101-102	8	Calculus III, 303	4
English 101-102**	6	Sociology 201. Introduction	3
Physical Education 111-112	2	Sociology 404. The Community ..	3
	—	Physical Chemistry 403	4
	34	Diff. Equations 404 or Adv.	
		Calculus 405	3
		Mathematics 205-206. Mechanical	
<i>Sophomore</i>	<i>S. H.</i>	Drawing and Descriptive	
Christianity and Culture 201-202	12	Geometry	4
Calculus I & II, 207-208**	8		—
Physics 201-202	8		33
Quantitative Analysis 201	4		
Physical Chemistry 403	4		
Physical Education 121-122	2		
	—		
	38		

Physical Education 121 and 122 may be taken in the junior year.

* Freshmen entering with four or more credits in mathematics may apply for admission to Calculus I and the elimination of the requirement of Mathematics 103 and 104.

** Starred courses may be taken in summer sessions.

THREE-YEAR PROGRAM FOR PREMEDICAL AND PREDENTAL TRAINING

<i>Freshman</i>	<i>S. H.</i>	<i>Junior</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 301-302	6
Mathematics 103-104*	6	Zoology 101, Botany 102.....	8
English 101-102	6	Physics 201-202	8
Chemistry 101-102	8	Quantitative Analysis 201.....	4
Physical Education 111-112.....	2	Physical Chemistry 402.....	4
—	—	Electives, Advanced Chemistry or	—
	34	Vertebrate Zoology	—
			30
<i>Sophomore</i>	<i>S. H.</i>		
Christianity and Culture 201-202	12		
Calculus I & II, 207-208.....	8		
Foreign Language 201-202.....	6		
Organic Chemistry 303-304.....	8		
Physical Education 121-122.....	2		
—	—		
	36		

This program fulfills the recommendations of the Association of American Medical Colleges; also, it meets the requirements for predental training. St. Andrews will award the B.S. in Medical Science to those who complete the above curriculum and the doctor's degree program in an accredited medical or dental school. It should be noted that many medical schools have expressed preference for the four-year degree programs as shown on pages 80 to 82.

THREE-YEAR COOPERATIVE PROGRAM IN MEDICAL TECHNOLOGY

<i>Freshman</i>	<i>S. H.</i>	<i>Junior</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 301-302	6
Mathematics 103-104*.....	6	Foreign Language 201-202.....	6
English 101-102	6	Physics 201-202	8
Chemistry 101-102	8	Vertebrate Anatomy 201 or	—
Physical Education 121-122.....	2	Microbiology 301.....	4
—	—	Quantitative Analysis 201.....	4
	34	Physiology 202	4
		Elective, Psychology or Sociology	—
<i>Sophomore</i>	<i>S. H.</i>		
Christianity and Culture 201-202	12		32
Calculus I & II, 207-208.....	8		
Zoology 101, Botany 102.....	8		
Organic Chemistry 303-304.....	8		
Physical Education 121-122**...	2		
—	—		
	38		

This program fulfills the recommendations of the Registry of Medical Technologists of the American Society of Clinical Pathologists. The Bachelor of Science Degree in Medical Technology will be awarded by

* Freshmen entering with four or more credits in high school mathematics may apply for admission to Calculus I and the elimination of the requirement of Mathematics 103-104.

** Physical Education 121 and 122 may be taken in the junior year.

St. Andrews to students who complete the above program and the requirements for the Diploma in Medical Technology at one of the following institutions: Bowman Gray School of Medicine, Winston-Salem, N. C.; Charlotte Memorial Hospital, Charlotte, N. C.; Grady Memorial Hospital, Atlanta, Georgia; Medical College of Virginia, Richmond, Virginia; Presbyterian Hospital, Charlotte, N. C.; and Rex Hospital, Raleigh, N. C.

THREE-YEAR COOPERATIVE PROGRAM IN NURSING SCIENCE

<i>Freshman</i>	<i>S. H.</i>	<i>Junior</i>	<i>S. H.</i>
Christianity and Culture 101-102	12	Christianity and Culture 301-302*	6
Mathematics 103-104*	6	English Literature 201-202*	6
English 101-102*	6	Sociology 201, 404	6
Zoology and Botany 101-102*	8	Psychology 201*	3
Physical Education 111-112	2	Microbiology 301	4
	—	Genetics 302	4
	34	Sociology 311—Christian Marriage and Family Life	3
<i>Sophomore</i>	<i>S. H.</i>		—
Christianity and Culture 201-202	12		31
Chemistry 101-102*	8		
Foreign Language 201-202*	6		
Vertebrate Anatomy 201	4		
Physiology 202	4		
Physical Education 121-122	2		
	—		
	36		

* The student will be awarded the Bachelor of Science degree in Nursing on the completion of the above program and the program in nursing training at the Charlotte Presbyterian Hospital. The starred courses may be taken in the summer. The student may complete the above program in two academic years and two summer sessions. The well prepared student may start in the summer preceding his freshman year.

CONSERVATORY OF MUSIC

The Conservatory of Music offers the following degrees: *Bachelor of Music* with a major in Piano, Organ, Voice, or Orchestral Instruments; *Bachelor of Music* with a major in Church Music; *Bachelor of Music* with a major in Music Education; and *Bachelor of Arts* with a major in Music. (The specific requirements for each of these degrees is listed below.)

BACHELOR OF MUSIC WITH A MAJOR IN PIANO OR ORGAN

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Theory 101-102	8	Theory 201-202	8
Introduction to Music 111-112	4	Conducting 305	2
Piano 111-112 or Organ 131-132	8	Piano 211-212 or Organ 231-232	8
Ensemble	2	Ensemble	2
English 101-102	6	Christianity and Culture 101-102	12
Physical Education	2	Physical Education	2
	—		—
	30		34

<i>Junior</i>	<i>S. H.</i>
Counterpoint 301-302	6
Form Analysis	4
Piano 311-312 or Organ 331-332	10
Ensemble	2
Christianity and Culture 201-202	12
—	—
	34

<i>Senior</i>	<i>S. H.</i>
History of Music.....	6
Piano Pedagogy 421-422 or.....	4
Organ Pedagogy 405 and	2
Service Playing 402	3
Piano 411-412 or Organ 421-422	10
Ensemble	2
Recital 100	2
Electives	6
—	—

31-30

BACHELOR OF MUSIC IN VOICE

<i>Freshman</i>	<i>S. H.</i>
Theory 101-102	8
Introduction to Music 111-112..	4
Voice 181-182	6
Piano 121-122	0
Ensemble	2
English 101-102	6
Physical Education	2
—	—
	34

<i>Sophomore</i>	<i>S. H.</i>
Theory 201-202	8
Conducting 305	2
Voice 281-282	6
Piano 211-212	2
Ensemble	2
Christianity and Culture 101-102	12
Physical Education	2
—	—
	34

<i>Junior</i>	<i>S. H.</i>
Voice 381-382	8
Piano 331-332	4
Ensemble	2
Applied Music Electives	2
French 101-102 or 103-104.....	6
Christianity and Culture 201-202	12
—	—
	34

<i>Senior</i>	<i>S. H.</i>
History of Music.....	6
Form Analysis 303-304.....	4
Voice Pedagogy 423.....	2
Song Literature 411.....	2
Voice 481-482	8
Piano 411-412.....	2
Ensemble	2
Recital 100	2
German 101-102	6
—	—

34

Candidates for this degree who have sufficient background in piano may substitute organ in place of the required piano, upon recommendation of the Dean of the Conservatory.

BACHELOR OF MUSIC IN CHURCH MUSIC

<i>Freshman</i>	<i>S. H.</i>
Theory 101-102	8
Introduction to Music 111-112..	4
Organ 131-132	6
Voice 181-182	2
or	
Voice 181-182	6
Organ 131-132	2
Ensemble	2
English 101-102	6
Physical Education	2
—	—
	30

<i>Sophomore</i>	<i>S. H.</i>
Theory 201-202	8
Conducting 305	2
Organ 231-232	6
Voice 281-282	2
or	
Voice 281-282	6
Organ 231-232	2
Ensemble	2
Christianity and Culture 101-102	12
Physical Education	2
—	—
	33

<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Counterpoint 301-302	6	History of Music 311-312.....	6
Form Analysis 303-304.....	4	Church Music 413-414	6
Organ 331-332	4	Organ Pedagogy 425.....	2
Voice 381-382	2	or	
or		Voice Pedagogy 423	2
Voice 381-382	4	Service Playing 402	3
Organ 331-332	2	Choir Materials & Methods 420..	3
Ensemble	2	Hymnology 415	3
General Psychology	3	Organ 431-432	6
Christianity and Culture 201-202	12	Voice 481-482	2
—		or	
33		Voice 481-482	6
		Organ 431-432	2
		Ensemble	2
		—	
		33	

BACHELOR OF MUSIC IN MUSIC EDUCATION

The requirements for this degree are in accord with North Carolina certification requirements. It is suggested that students not wishing to teach in North Carolina check the requirements for certification in the state in which he expects to teach.

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Theory 101-102	8	Theory 201-202	8
Introduction to Music 105-106..	4	Applied Music (Major).....	4
Applied Music (Major).....	4	Applied Music (Secondary).....	2
Applied Music (Piano)*.....	0	Ensemble	2
Ensemble	2	Christianity and Culture 101-102	12
English 101-102	6	Basic Science 101-102	8
Mathematics 103	3	Physical Education	2
Social Science Elective.....	3	—	
(choose one)		38	
Geography 201			
Political Science 201			
Sociology 201			
Economics 207			
Physical Education	2		
—			
32			
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Counterpoint 301-302	6	Conducting 305	2
Form Analysis 303-304.....	4	Orchestration	2
Music History 311-312.....	6	Applied Music (Major and/or	
Applied Music	4	secondary)	6
Ensemble	2	Recital	1
Christianity and Culture 201-202	12	Ensemble	1
Introduction to Teaching 301 ...	3	Music in the Elementary School..	4
—		Music in the High School.....	2
37		Adolescent Psychology 307.....	3
		Principles of Secondary Ed. 407 .	3
		Educational Psychology	3
		Student Teaching	6
		—	
		33	

* The piano requirement must be met by the passing of proficiency tests by the end of the Sophomore year.

BACHELOR OF MUSIC IN AN ORCHESTRAL INSTRUMENT

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Theory 101-102	8	Theory 201-202	8
Introduction to Music 111-112..	4	Conducting 305	2
Major Instrument:	6	Major Instrument	6
Woodwind 141-142		Piano 211-212	2
Brass 151-152		Ensemble	2
String 161-162		Christianity and Culture 101-102	12
Percussion 171-172		Physical Education	2
Piano 121-122	0		—
Ensemble	2		34
English 101-102	6		
Physical Education	2		
	—		
	30		
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Counterpoint 301-302	6	History of Music	6
Form Analysis 303-304.....	4	Orchestration 401	2
Major Instrument	10	Instrument Literature 412 or	
Ensemble	2	Directed Individual Study.....	2
Christianity and Culture 201-202	12	Major Instrument	10
	—	Ensemble	2
	34	Recital 100	2
		Elective (non-music)	6
		Applied Music Elective.....	2
			—
			30

SUGGESTED ARRANGEMENT OF COURSES FOR BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC

This course is planned for the student who wishes a general cultural background in music as well as in other liberal arts, but who does not plan either to become a skilled technician or to teach music.

<i>Freshman</i>	<i>S. H.</i>	<i>Sophomore</i>	<i>S. H.</i>
Applied Music	6	Theory 101-102	8
Christianity and Culture 101-102	12	Applied Music	6
Mathematics 103-104	6	Science	8
English 101-102	6	Christianity and Culture 201-202	12
Appreciation	2	Physical Education	2
Physical Education	2		—
	—		36
	34		
<i>Junior</i>	<i>S. H.</i>	<i>Senior</i>	<i>S. H.</i>
Christianity and Culture 301-302	6	History of Music 305-306.....	6
Applied Music	6	Form Analysis	4
Foreign Language	6	Christianity and Culture 401-402	6
Humanities Electives N.....	6	Foreign Language	6
Theory 201-202	8	Electives	6
	—		—
	32		28

The electives offered above must be taken in the field of liberal arts.

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Alma McC. McGirt.....	Student Center Hostess
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Sarah S. Harris, M.A.....	Assistant Librarian
Mary Duncan Ring, B.A.L.S.....	Assistant Librarian

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*Resigned, March 1, 1963

**Deceased

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B.A., North Texas State College; B.D., Th.M., Th.D., Union Theological Seminary in Virginia

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D.Ed., University of Florida

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Ph.D., Duke University

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Ph.D., Indiana University

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M.S. in Ed., Central Missouri State College
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* Part time.

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B.M., Converse College
- *Robert MacDonald, *Artist in Residence, Second Semester*
B.A., University of North Carolina; M.M., Indiana University
Diploma in Piano, Academy of Music, Vienna, Austria

* Part time.

APPENDIX

SCHOLARSHIPS, LOAN FUNDS, FOUNDATIONS Honor Awards

In addition to the endowed scholarships listed below, St. Andrews Presbyterian College will offer special annual scholarships using funds which are donated by generous individuals for this use.

There are four types:

- Vardell Scholarships (six)
- Valedictorian Scholarships
- Salutatorian Scholarships
- Honor Students (12)

Anyone who receives a scholarship, whether on basis of mental ability or need, is honored by the College. Below are listed a number of donors and funds for scholarship purposes.

Scholarships

The Albemarle, Granville, Kings Mountain, Orange and Wilmington Presbyterian Scholarships.
Alumnae Class of 1945.
Alumnae Class of 1950.
Alumnae Class of 1953.
The W. H. Belk Memorial Fund.
The Edward Earl Bell Memorial.
The Mrs. J. F. Blue Memorial Scholarship.
The James Boyd Memorial Scholarship.
The James P. Brawley Music Scholarship.
The Rowland A. Brown Scholarship.
The W. C. Brown Scholarship.
The Andrew Bryson Fund.
The Paul Lindsay Cashion, Jr., Memorial Fund.
The Fred C. Cashwell Memorial Fund.
Class of 1957 of Flora Macdonald College.
The Emily Faucette Cooper Scholarship.
The James Cowan, Sr., Memorial Fund.
The Georgine Gregg Danby Scholarship.
The James Dinwiddie Scholarship.
The Elise Memorial Fund.
The Lilly Bitting Farish Chair of Business Administration.
The Warren Ficklen Memorial Fund.
The Frank Fisler Memorial Fund.

The N. N. Fleming Scholarship.
Flora Macdonald Class of 1961.
The Alma Greene Frye Scholarship Fund.
The C. M. Gibbs Scholarship.
Gillespie (E. E.) Scholarship Fund.
The Elizabeth Monroe Taylor Gilmour Memorial Scholarship.
The Margaret Fraser Gluck Scholarship.
The Ella and Anna Graham Fund.
The Mr. and Mrs. Ernest Graham, Sr., Scholarship.
The Kate Fields Grannis Scholarship.
The Margaret Smith Griffin Scholarship.
The Sheriff John Wesley Hall Scholarship.
The Sallie McCall Hamer and Robert Pickett Hamer Scholarship.
The Margaret McKinnon Hawley Memorial Scholarship.
The Mildred Johnston Hay Scholarship.
The Jane Flow Henderson Memorial Scholarship.
The Joseph Eli Henderson Memorial Scholarship.
The John L. and Janie J. Henry Memorial Fund.
The Martha A. Holt Scholarship.

The Andrew J. Howell Memorial Fund.
 The Franklin L. Hyndman Memorial Scholarship.
 The Walter James Memorial Fund.
 The Lacy John, Jr., Memorial Fund.
 The John Knox Fellowship Scholarship Fund.
 The Minnie Melvin Johnson Memorial Scholarship.
 The Paul Guthrie Jones Scholarship.
 The Mary McNair Jones Chair of Bible and Religious Education.
 The Mary Burwell Lacy Scholarship.
 The George Anderson Little Memorial Fund.
 The Katherine Livingston Memorial Scholarship.
 The Mary Patterson Livingston Memorial Scholarship.
 The Mattie Livingston Memorial Scholarship.
 The John D. Malloy Scholarship.
 The Mebane Presbyterian Church Scholarship.
 The Pilot Mills Scholarship.
 The B. F. and Bettie L. Montague Scholarship.
 The Evelyn Sellers Morgan Memorial Fund.
 Mark Morgan Scholarship.
 The James E. Morrison, Jr., Memorial Fund.
 The Kings Mountain Presbytery Scholarship.
 The Colin Shaw McArthur Memorial Fund.
 The Dr. David McBryde Scholarship.
 The Hattie McBryde Memorial Scholarship No. 1.
 The Hattie McBryde Scholarship No. 2.
 The Ryan McBryde Memorial.
 The Daniel Archibald McCormick Scholarship.
 The Bessie McNeill McEachern Memorial Scholarship.
 The Eliza J. McFarland Scholarship.
 The Margaret Morgan McGuire Scholarship.
 The Evelyn Stafford McKay and Daniel John McKay Memorial Fund.
 The George Carmichael McKay Memorial Fund.
 D. P. McKinnon Scholarship.
 The John W. McLaughlin Scholarship.
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The A. H. McLeod, Sr., Scholarship.
 The Andrew Calhoun McLeod Scholarship.
 The Flora McLean McLeod Memorial Scholarship.
 The Mary Stewart McLeod Gift.
 J. L. McMillan Scholarship.
 The James L. McNair Scholarship.
 The Ellen McNeill Scholarship.
 The Ellen McNeill Scholarship Fund.
 The William and Ida Carmichael McQueen Scholarship.
 National Merit Scholarships.
 The Garland C. Norris Company Scholarship.
 The Orange Presbyterial Scholarship Fund.
 The Florence Amelia Burnett Pace Memorial Fund.
 The Sallie McNair Pate Scholarship.
 Currie and Patterson Memorial Fund.
 The Rosa Withers Patterson and William S. Patterson Scholarships.
 The Elizabeth Bellamy Peele Scholarship.
 The Lawrence Peterson Memorial Fund.
 Evelyn Butler Phillips Memorial Scholarship Fund.
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 The Raleigh High School Scholarships.
 The Annie Ray Memorial.
 Reidsville First Presbyterian Church Scholarship.
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 The St. Andrew's Society Scholarship No. 2.
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 The Sinnott Scholarship Fund.
 The June J. Spencer Scholarship.
 The Pauline Judson Stamps Memorial Scholarship.
 The Thomas Stamps Memorial Scholarship.
 The Lucy Steele Memorial Scholarship No. 1.

The Lucy Steele Memorial Scholarship No. 2.
 The Lucy Steele North Carolina Scholarship.
 The Mr. and Mrs. J. D. Stewart Scholarship.
 J. D. Swinson Loan Fund.
 The Synodical Chair of Bible Endowment Fund.
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 The Edward Townsend Memorial Fund.
 The Katherine Allen Vardell Scholarship.
 The Charles G. Vardell Education Fund.
 The Jane Dickson Bell Vardell Scholarship.
 The Linda Vardell Music Scholarship.
 The Rosetta Richardson Vick Scholarship.

The Thomas Stamps and Alonza L. Walker Scholarships.
 The Leo and Ella Wallace Scholarships.
 The A. H. White Memorial Fund.
 The J. Harvey White Memorial Scholarship.
 The J. Harvey White Memorial Scholarship.
 The Mary Gale Carter White Scholarship.
 The J. P. Wiggins Memorial Fund.
 George M. Wilcox Memorial Bible Endowment.
 The Jessie Candler Willard Fund.
 The Marion Stokes Williamson Work-Grant Fund.
 The Wilmington Presbyterian Scholarship Fund.
 The Osteen-Woodson Scholarship.
 The Bettie Vaiden Wright Scholarship.

Loan Funds

LOAN FUNDS. The Masonic Loan Fund, The John F. McNair Loan Fund, The James L. McNair Loan Fund, The Andrew Bryson Loan Fund, The John Robert Sloan Memorial Loan Fund, The J. D. Swinson Loan Fund, and others, which are available upon application.

THE JENNIE E. ALEXANDER STUDENT LOAN FUND. A bequest from the will of Mrs. Jennie E. (Bidleman) Alexander, the net income to be applied toward loans to capable and worthy students at St. Andrews Presbyterian College who would be unable to enter or remain in school without such assistance. Amount \$15,000.00.

THE NATIONAL DEFENSE STUDENT LOAN PROGRAM. The National Defense Education Act, passed by the Senate and the House in August, 1958, and signed into law by President Eisenhower on September 2, authorizes more than one billion dollars in Federal aid to education.

Title II of this act provides for loans to worthy and needy students in institutions of higher education. Assistance is in the form of loans that bear no interest until repayment begins, and the borrower is not required to begin repayment until he has been out of school for one year. Up to \$1,000 a year for five years may be borrowed under the conditions of this act.

Special consideration is given to current students, and incoming freshmen, with superior academic backgrounds who plan to become elementary or secondary school teachers, or to students whose academic background indicates a superior capacity for, or preparation in, science, mathematics, engineering, or a modern foreign language. The loan fund is also "reasonably available" to all students who meet the eligibility requirements.

THE PICKETT AND HATCHER EDUCATIONAL FUND grants loans to students who are accepted by the Board of Trustees of the Fund. Loans bear interest at the rate of 2% per annum during the time the student remains

in college. Four months after leaving college, the rate changes to 4% per annum.

THE STANBACK STUDENT LOAN FUND is to be used to aid worthy and promising students who could not otherwise meet their college expenses. Loans from this fund are to be secured by promissory notes bearing interest at the rate of 3% per annum. These notes are to be repaid within a reasonable time after the recipient has completed his formal education.

STATE LOANS FOR PROSPECTIVE TEACHERS: These are available from the N. C. Department of Public Instruction. Applicants may gain additional details by writing the Department.

Foundations

THE JULIA BRIDGES ASHLEY MEMORIAL FOUNDATION. Established by H. Bascom Ashley, Jr., in memory of his mother.

THE BIRTHDAY LOYALTY FUND. Established by the Alumnae in honor of Dr. Charles G. Vardell for college endowment. The goal of the Alumnae is \$100,000.

THE W. STANLEY DAVIS BEQUEST to be used for educational purposes. Amount \$2,000.

THE MRS. MARGARET J. DENNY BEQUEST to be used for educational purposes. Amount \$3,981.74.

THE DAVID FAIRLEY CHAIR. Established by Elder Neil S. Blue in honor and memory of his pastor, Rev. David Fairley, D.D. The interest to be applied to the Chair of Chemistry and Physics.

THE GRANTHAM MEMORIAL. Established by Emma Grantham Willis, Hiram and Reid Grantham in loving memory of their parents, Mr. and Mrs. Hiram Grantham. Mrs. Grantham was an alumna of the college, and Mr. Grantham was for many years an honored trustee.

H. G. HILL MEMORIAL FOUNDATION. Established in memory of the late Rev. H. G. Hill, D.D., by his friends, especially those in the congregations of the Maxton and Centre Presbyterian Churches. The interest to be applied to the Latin Chair.

JAMES A. MACDONALD PROFESSORSHIP. Established by the late Dr. James A. Macdonald of Toronto, Canada, to be applied to the Chair of History.

THE SARAH CRAIG McLEOD BEQUEST to be used "for religious, charitable and educational purposes." This bequest was made in memory of her beloved husband, Walter McLeod. Amount \$15,228.

THE KATE BITTING REYNOLDS BEQUEST for the Christian training of young women at St. Andrews Presbyterian College. Amount \$50,000.

MRS. J. HENRY SMITH CHAIR OF BIBLE. Endowed by Mrs. Lunsford Richardson in honor of her mother.

THE WATTS' FOUNDATION. Established by Mr. George W. Watts, of Durham. This consists of a fund of \$50,000, the principal being a permanent investment and the interest used for the good of the college according to the decision of the authorities.

THE WHITE CHAIR OF BIOLOGY. Endowed by J. Harvey White, William Elliot White, and Mrs. Mary White Carlton, in honor of their parents, James Wilson and Emma Holt White.

THE SYNODICAL AUXILIARY WHITE CROSS INFIRMARY ENDOWMENT. Given by Synodical of North Carolina.

INDEX

Academic Program	31	Health Service	22
Accounts Due	27	History of College	11
Acceptance at St. Andrews	16	History	55
Accreditation	7	High School Requirements	14
Administration, Officers of	92	Honor Scholarships	29, 97
Admissions	13	Home Economics	58
Adult Education	34	Honor Code	17
Advanced Placement		Housing and Meals	25
Appendix	97	Human Relations	76
Application for admission	26	Infirmary	11
Applied Mathematics	62	Latin	54
Applied Music	25, 71	Laundry Rental Service	27
Art	40	Loan Funds	29, 99
Athletics	17	Major Fields	75
Basic Science	62	Mathematics	60
Bible and Christian Education	38	Motor Vehicle Use Permits	22
Biology	63	Music Conservatory	68
Board (food service)	21	Music Education	70
Board of Trustees	91	Music Fees	25
Business Administration	41	Natural Sciences	62
Business & Economics	41	Personnel	90
Calendar of Events	2	Philosophy	40
Campus Description	7	Physics	67
Chemistry	65	Physical and Health Education	71
Christianity & Culture Program	37	Physical Training	71
Christian Education	39	Placement Service	24
Class Attendance	34	Political Science	56
Classification	32	Presbyterian Guidance Center	23
Class Standing	32	Programs of study	75
College Board Examinations	16	Psychology	47
Conservatory of music	68	Quality Points	32
Cooperative Degree Programs	84	Re-Admission	33
Correspondence Work	34	Refunds	27
Curriculum	34	Registration	31
Courses of Instruction	36	Religious Life	20
Degrees Offered	34	Requirements for Degree	35
Drama	41	Residence Requirements	21
Economics	44	Room Rent	25
Education and Psychology	45	Scholarships, Loan Funds and Foundations	97
English	48	Sociology	57
Expenses and Fees	25	Social Science	57
Faculty	93	Spanish	52
Fees and Expenses	25	Student Government	17
Financial Aid	28	Student Insurance	27
Foundations	100	Student Life	17
Foreign Languages	51	Student Load	31
French	51	Student Program	31
General Information	6	Summer School	33
General and Miscellaneous Fees	26	System of Grading	31
General Service Fee	25	Types of Admission	14
Geography	58	Transfer Students	14
German	53	Tuition, Regular	25
Grading System	31	For Music Majors	25
Greek	54	Withdrawals	32
Guidance and Counseling	23		

